

HNEDJ03	8052	967115	1 - 448	15 - 462	AI923367, AI583218, AI373875, H99041, AA614659, AA701656, AA455317, AI624093, AL120931, AI051123, N27564, AW131426, AA745905, H97544, N33217, AW193312, AA036731, AI811692, AI435894, AI784586, AA788753, AI348194, N47754, AI890992, AA479068, AA601557, AI287545, AA894619, AI682609, AW058621, AW081918, AW168028, AI346563, AW168929, AI433476, AI923848, AI566456, AI186661, N22090, AA678000, AI245176, AI245198, AI272966, AI963008, AI298694, AI187073, AA150090, D62527, AI435647, AI770052, AI680189, AA812522, AI890986, AI185100, AA403052, F11075, AI350680, AI866206, AI432046, AA514269, R20526, H46858, AI566594, R27302, R69930, AI143203, AW169284, AI080704, H18624, AI280761, AI697429, F36516, AI382360, AI472034, D61736, AI573004, AI888697, AI932870, AI355692, AA805532, H04179, AI355703, AA687849, R67586, N91144, N93493, AA757226, AI342620, R66707, AI298478, AW104101, AA150159, AI375753, AA968981, AI589126, AA381382, AA381400, AI401617, AI359209, N66889, R32649, R33334, AA381630, AW378387, AA381701, AA381636, AA904561, AA381643, H18598, AA381945, AA381644, R52479, N89744, R75976, AI263846, N56395, AA381602, AA381460, AA654417, AW152083, AA381275, AA167390, AA476343, AW051256, W81443, AA804381, C02214, AW057830, AI805033, AI075972, AI242237, AA347509, AW378359, AA284149, F31071, AA889282, AI679723, AI679152, AW378412, AA765452, AI216644, AA427526, H27061, R33333, AA909840, AI802150, R69882, R07700, R76807, AI915452, AA381605, AW002830, AI570298, N34507, N75875, AI280767, H18597, AA632567, AA844237, W04813, and AC004520.
HNEDH59	8053	739533	1 - 515	15 - 529	R19732, R55864, H09860, R61075, R19557, and AB032971.
HNEDF15	8054	946986	1 - 1267	15 - 1281	AA573510.
HNEDD15	8055	812918	1 - 437	15 - 451	AI635028, R81017, AA084609, AI923451, AI923458, AW168420, AI267269, AW088012, AI733856, AA427636, AA464739, AI953290, R44593, AA653139, AW238594, AI284640, AA704393, AI611569, AI611598, AA213959, R62710, AW188742, AA904211, AI249683, AI870453, AW270345, AI587467, AW265688, AL138329, Z83822, AC004242, AC005011, AC007066, AC005099, Z98044, AC004811, AC005412, AL049539, AC005280, AC007751, AC006441, AP000009, AL031228, AL022323, AP000510, AF129756, AP000030, AP000212, AP000134, AL139054, Z95114, Z97184, AL031311, AP000252, AL050341, AC005209, AF196969, AC006241, AL035086, AC005778, AC005529, AL109963, AB023048, AC005548, AC005694, Z83844, AC007421, AF205588, AC007371, AC006323, AL031666, AC005839, AC002544, AC005527, AP000065, AC004673, AP000556, Z98946, AC006509, AL121658, AP000552, AL035659, AC005632, AC004883, Y14768, AL035460, D87675, AC005231, AC004921, AC002375, AC005736, AP000331, AC005500, AC004805, AC007731, AL031284, AF196779, AP000172, AP000057, AL049795, AC005562, AC004815, AC006480, AP000125, AP000512, U85195, AL031846, AC007055, AP001136, AC004626, AL035405, AC004999, AL049761, AB023051, AC002476, AC006057, AC006511, AC006111, AC003029, AC000353,

HNECS71	8056	761415	1 - 351	15 - 365	AL121652, U82668, AC005291, U95742, AC006160, Z99716, AC002365, AL096791, AE000658, AC005479, AC006449, AC006141, AC005544, AC005914, Z84476, AC005606, AC004912, AL049776, AC004966, AB001523, AC005746, M30688, AC005488, AC005907, AC004659, AC000085, AC003982, AL009183, AC009516, AC002303, AC002236, AP000501, AC005245, AC004167, AL049830, AL023575, AL121825, AJ246003, AC004706, AC005225, Z83826, AC012384, AC003070, AF111169, AL078638, AC002073, Z83851, AC004702, AL049869, Z93017, AC002468, AL049766, AL023283, AL109827, AC006312, AC007688, AL034451, AL035249, X54486, AC005041, AC006965, AB003151, AC008039, AC007437, AC006475, AC004526, AL133163, AL022320, AC005823, AC002425, AC004777, AC002429, AC003098, AC004841, AC005701, AC007228, AC005619, AC006285, AC004491, AC005519, AC005332, AL049631, AC005399, AC004876, AL022721, AC004929, AC005971, AL121603, Z93928, AL033527, AL031575, AC005086, AL035420, AP000696, I40904, Z68128, AL009179, AC004967, AC003667, M63796, AC003030, U78027, AL031584, AL135783, AL022238, AC007707, Z98745, AL121653, AP000300, AC005486, AL049636, AC004033, AC004686, AC002115, AF165926, AC005740, U91326, AC005015, AL049653, AC007279, Z82178, AL109798, AC004517, U80017, Z97054, and AC005884.
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HNECP28	8057	469521	1 - 535	15 - 549	T92707.
HNECN28	8058	558790	1 - 239	15 - 253	X82015, L32185, E12100, D38171, D50403, D50402, L38592, Z34916, AF005380, U70255, U55068, L13732, A45655, AF005379, U39614, U12862, U27105, A45644, L38593, A45643, and S79364.
HNECI41	8059	712607	1 - 487	15 - 501	W88808, and AC004782.
HNECD74	8060	470015	1 - 538	15 - 552	
HNEBY64	8061	514762	1 - 754	15 - 768	AA468319, AW078909, AA602906, AA622801, AA468466, AI917891, AA610491, AL047427, AW302909, AI744830, AI262909, AC002045, AC006468, AL031680, AP000350, AP000113, AC007546, AL035683, AL109798, Z97053, Z94721, AP000512, AL096761, AC004253,

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HNEBY10	8062	968455	1 - 490	15 - 504	AA932258.
HNEBN04	8063	927811	1 - 464	15 - 478	AA984174.
HNEBM59	8064	950732	1 - 480	15 - 494	AL121603.
HNEBM40	8065	868109	1 - 418	15 - 432	
HNEBJ95	8066	529572	1 - 188	15 - 202	
HNEBJ81	8067	529571	1 - 158	15 - 172	
HNEBJ67	8068	529573	1 - 113	15 - 127	
HNEBJ62	8069	861074	1 - 276	15 - 290	AI620676, AC004929, AC002996, AC005037, AP000240, AC003070, AL049779, AC006946, AC005295, and AL008718.
HNEBJ43	8070	529574	1 - 187	15 - 201	
HNEBJ31	8071	529577	1 - 321	15 - 335	
HNEBJ21	8072	529578	1 - 216	15 - 230	
HNEBJ10	8073	968440	1 - 267	15 - 281	AA826197, and Z99128.
HNEBJ09	8074	529579	1 - 158	15 - 172	AP000556, and AP000557.

HNEBJ07	8075	861072	1 - 350	15 - 364	<p>N53565, AI701080, AW263784, AL041578, AL041530, AA490097, N64437, AW245179, AW090754, AI566408, N87410, F31619, AA348402, AA456422, AI364074, AA371642, AW408686, AW074022, AI924806, AA558857, R69934, AA569065, AW104748, AW408106, AA507991, AA078255, AW373604, AA287618, AA776211, AA639025, AW383357, AA317096, AI038597, AI568678, AA780386, AA586850, AA600126, AA156484, AL135074, AA483942, T65978, AA192888, AI370650, AC007358, AL021154, AC007917, AL031985, AP000344, AC006449, AC004655, AC007384, AC005099, AL109758, AC004185, Z83822, AC005821, AL035423, AC002430, AL049569, AC006530, AC002480, AC005017, Z85986, AC004526, AP000689, AP000509, AC005529, AL031778, AJ251973, Z94056, AB003151, AF003626, AL049589, AC006948, Z84480, AC002477, AC003977, AL031651, Z84469, AC002988, AC005255, AC002549, AC012627, AC002558, AC005164, AJ003147, U64453, AF124523, D84394, AC002070, U91322, AC003030, AC006511, AC004106, AC004491, AC005777, Z98750, AL031290, AF195658, U80017, AC004019, AC005913, AC006241, AL109984, AC005800, AF053356, AC007538, AC007055, AC002312, AP000240, AP000557, AC005971, AF111169, AL109798, AC005200, AL022323, AC004854, AC005535, Z82244, AC005725, AP000558, AC002350, AC006388, AC003692, AC007993, AC004929, AL117330, AC004834, AC004531, AP000553, Z82214, AC002094, AC003982, AL049780, AC006441, AC007225, AC007536, AP000555, Z46773, U47924, U96409, AC005747, AC005053, AL121652, AL009181, AL049839, AL133371, AC009516, Z83840, AC006487, AC007546, AC006515, AC005858, AC005841, AC004905, AC004814, AC007090, Z93023, AC004832, AL022476, AL096701, AC005102, AC004583, AC005332, AP000275, AC006132, AL078638, AB000882, AL022238, AL133448, AL096791, AC003684, AC005751, AF091512, AC008012, AC005914, Z93020, AC006064, AL035089, AL050332, Z98036, AC004231, AP000105, AP000037, AP000503, AC004638, AC005363, AP000690, AL008721, Z97183, AC002416, AP000959, AC006251, AL008583, Z98256, AC002310, AL023575, AL121754, AC003663, AL049834, AC016027, AL121653, AC005089, AC006130, AC016830, AC004253, AL021366, AF205588, Z68226, AC006539, AL049697, AC005722, AC007344, Z97876, AP000114, AP000156, AC002526, AC004882, AC006480, AL049745, AL031774, AL122023, AL096678, Z68756, AF134726, AC005095, AC004477, AC008273, AP000025, AL049776, AC005820, AC003041, AL031575, AL009183, and AL078632.</p>
HNEBF27	8076	684467	1 - 255	15 - 269	AA340904, AC002430, and AC007384.
HNEBF20	8077	529643	1 - 66	15 - 80	AI298252, AI954850, AI743793, AI807633, AI537343, and AI208171.
HNEAQ86	8078	575534	1 - 288	15 - 302	<p>F30650, AI567391, T05684, F30586, F35689, F16848, AA507814, AA570441, AA515728, AI707744, AW419389, AA654482, R74433, T17332, AI869797, AA947369, AA340737, AA229159, AL121287, AI689198, R89560, AA610381, AA598736, AL037632, AI246996, AA338770, T39217, AA226532, AA527109, AW328202, R34070, AW150387, F30158, AA985199, AC002544, AL096791, U91326, AC005231, Z82215, AL022327, AC006312,</p>

AF200465, AL034379, M87889, AF196969, AC005015, AC003002, AL034420, AC005696, AC005911, AL132987, AC005747, AC003982, AC005225, U75285, AC004859, U67809, AC005736, AP000008, AL135744, AC004686, AC005212, AL109827, AC020663, Z85986, AF001548, U73647, AL049712, AC005399, L78810, AL035659, AP000704, AL109758, AC006011, AC004000, AL031657, AC005944, AC002310, AC002551, AR060077, AC005006, AC006241, AC002398, AC006121, AF053356, AL049539, AL023807, AP000047, AC005531, Z84469, Z83844, AC012627, AC002558, AC007878, AF031078, AL050332, AP000555, AC005239, AL121603, AC005837, AB001523, AC007059, AC006132, AC002350, Z97054, AL023882, AF030876, AC004922, AC005084, AC002996, AC007766, AC005003, AC004655, AP000116, AP000115, AL031133, AC004656, Z69917, AC004858, AC004787, AC005104, AC004816, AC006449, AC004878, AC004963, AC005920, AL020993, AF095901, AF196779, AC007376, AC006512, AC004491, AC006023, AC005632, AC006130, Z98051, U07562, AL023553, AC005088, AC005004, AC004905, AC005074, AL050308, AF109907, AC005280, AC008372, AL121658, AL049795, AC004854, AC003041, AC004531, AP000503, AC007308, AC005049, AF038458, AL023879, Y10196, AL096678, AB023049, AC002365, AC007637, AC005256, AC005081, AC005666, AP000030, AC004929, AL024509, AL109984, Z95115, AL031984, AL031230, AL021917, AC005488, AC004750, AC005102, AL133445, AC005996, AC005067, AF126403, AF030453, M63796, AL050318, AF118808, AC007537, AC005523, U91318, AC004770, AC005914, AC000094, AC000085, AP000303, Z82180, Z93023, AC000003, AC003026, L44140, AC006480, Z84466, AC007688, AL049843, Z75891, AC004844, AL023803, AL021366, AL031293, AC005529, Z82901, AC007686, AL022323, Z83843, AC007993, AL080243, AL021977, AC005324, AC005821, AC006538, AF111167, AC005089, AL035417, AL050309, AC005823, AC005695, AL020997, AC004834, AC005578, AC005622, AC002984, AP000502, AC000159, AF196971, AC007226, AP000703, AC004985, AC006285, AC007731, AC003043, AL031668, AL008726, AC005331, AC003108, AC005921, AC005500, AL021154, U63630, AL031670, AC007192, AF134726, AC003962, AC005338, AC002119, AC005484, M20903, AC004927, AF001552, AC016027, AL034429, AC004832, AC006965, AC007774, AL022311, AP001053, AC004672, AC007676, AC006277, AC000026, AC010168, AC006262, AL031680, and AC000025.				
HNEAQ37	8079	507280	1 - 330	15 - 344
HNEAN10	8080	968468	1 - 395	15 - 409
HNEAK47	8081	529646	1 - 251	15 - 265
HNEAF71	8082	761414	1 - 473	15 - 487
HNEAA59	8083	738531	1 - 511	15 - 525
HMWJD93	8084	849419	1 - 478	15 - 492
H41860, AA321412, AA936323, and AA213692.				
H75348, W81649, AI754581, AW374534, AI902340, AI902342, and AF086458.				
H75348, AW406166, AI122621, H40371, H75349, AI318176, AI638837, AA315764, AI189304, AA093383, AI335256, AA723497, AI344272, AI598250, AI192481, AW242317, AI140369, AW406665, H60725, AA330135, W68219, R91106, AA004461, AA676608, AI219489,				

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HMWIZ55	8085	731809	1 - 210	15 - 224	AW301879, AW408709, N27559, AA856945, R20715, H71238, AC006017, AL049712, AC005837, AC016027, AC016830, Z85986, AC004605, AC005618, AC006277, AP000355, AC004890, AC004560, AL031666, AC005520, AC007845, AL034423, AL009181, AC004985, AL031728, AL031295, AC004056, AC007955, AC006512, U93305, AC005102, Z79997, AP000512, AB023049, AC016026, AL021878, AL049832, AF024533, and AL078611.
HMWIX77	8086	973813	1 - 634	15 - 648	D58283, D80043, D50979, D59467, C14389, D80188, D80195, D80227, D80164, D59275, D59502, AA305578, D80391, D80253, D59787, AA514188, D57483, D59859, D80022, C14331, D80166, D51423, D59619, D80210, D51799, D80240, C15076, D80196, D80269, D81030, D80038, D81026, D80212, D80193, D80219, D80366, D59927, D80378, D59610, D80522, AA305409, D51022, D59889, D50995, D80045, D80024, D80248, AW177440, D80241, C75259, AW360811, T03269, AA514186, C14429, D80251, AW178893, D51060, C14014, D80133, AW375405, AW179328, D80247, D80439, AW366296, AW378532, AW377671, AW360844, D80268, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AW177731, AW177501, AW177511, D58253, C05695, D80302, D80132, AW178762, D51103, AW179020, D51250, AW352171, D80134, D52291, AW377676, AW178906, AW352170, AW178907, AW178908, AW179019, AW179024, AW178775, AW369651, D80157, AW177505, AW177722, AW352158, AW360841, AW352117, D59373, AW178909, AW177456, D51759, AW179004, AW176467, AW179329, AW178980, T11417, AW177733, AW378528, AW178754, AW179018, D59695, F13647, AW179009, AW179012, AW178914, AW178911, AW378525, C06015, AA809122, T48593, D80168, AI910186, AW367967, C14227, D58246, AW178983, AW177728, AW178774, D81111, AW378543, AW360834, AI905856, AW352163, D59653, C14298, D80064, C14407, D45260, D59503, AW178781, AW177723, AW352120, AW367950, AW178986, AW378540, H67854, C03092, H67866, AI525923, D59627, D59317, D58101, Z21582, D59474, T03116, AI525227, D80258, C14957, D60010, AW177734, AI525917, AI557774, D80014, C14973, C14344, AW378533, AI535686, D51221, D51097, D51213, D59551, AI525242, AI525920, AA514184, D60214, T03048, AI557751, C14046, AI525912, AI525235, D45273, C16955, AI525925, AA285331, AW378542, AW378539, AI525215, AI525237, Z33452, D50981, C05763, T02974, AI525222, AW360855, D31458, T02868, H67858, C04682, AI525928, C13958, D51053, Z30160, AI525228, N66429, D80314, AI132110, AB028859, AF058696, AR008278, A84916, A62300, A62298, AR018138, Y12724, D26022, A82595, X67155, Y17188, A25909, A67220, D89785, A78862, D34614, AB002449, AR060385, D88547, AR016808,

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HMWIX37	8087	708676	1 - 363	15 - 377		AI283313, AA910680, W70158, AW387836, W70197, R69239, AW387883, AW387786, AW387795, AW387782, AW387778, AW387775, R77897, AW020592, AI557808, AW020397, AW020710, AW021717, AW019988, AW020425, AW021178, AW023351, AW023955, W48671, AA099519, AW020629, AW023863, AW020480, AI687134, AI525653, AW022299, AC010202, AC005365, AC004686, AL021393, AR050959, X60769, and AC002480.
HMWIS12	8088	970753	1 - 1087	15 - 1101		AI684734, AW134873, AA912105, AI808963, AA905108, AA764759, AI911204, AW268977, AW405428, and AW086137.
HMWIQ64	8089	842657	1 - 1650	15 - 1664		H51069, H93820, H93316, H51070, AL048969, AA603421, AA535216, AA679794, N57681, AI281818, AA714110, AI859438, AW410354, AI380617, AA129746, AW419389, AA714011, AW407632, AW021161, AI884383, AA489240, AA601230, AW022934, AW151247, AI523074, AA604831, AW341978, AI291439, AI537995, AI536858, AI130709, AI709307, AW131356, T74524, AA678950, AW272640, AI814682, AI446623, AI735609, AI120959, AA558404, AL042906, AI340151, AA829044, AC002126, AC004491, AC005081, AI096791, AC006449, AC005632, AL031670, AC004859, U91326, AC002365, AL109865, AC005015, AC005332, AC007731, AC005500, AF196969, AC005399, AC006211, AC006121, L78833, AC005225, AC003982, AC005527, U47924, AF129756, AC004983, AL031680, AL049779, AL049540, AL121603, AC005088, AL109627, Z98941, AC006312, AC002316, AC002425, AC005529, AL139054, AC004991, AC005736, AC005519, AP000512, AL035072, AL031846, AF001548, Z98946, AF001550, AC005531, AC005746, AC002477, AL031230, AL031311, AL024498, AF111168, AC003101, AC005911, AC005011, AC003684, AC002544, AC006441, AC006111, AC004019, AC002301, AC005488, AL031673, AC004841, AC002303, AC005409, AC005207, AC006480, Z83840, AC002429, AC005484, AL133245, AJ011930, AF109907, AL031133, AF047825, AC007880, AL133246, AC005520, AP000557, AC007686, AC004253, AL049776, AL031662, Z83846, AC007371, AL096701, AC005288, AC009516, AC003043, AL080243, AC002565, AC005089, AF001549, AL021391, AC003029, AC002470, AC004033, AC002073, AP000134, AP000212, AC005839, AC007637, AC004659, AC006538, AL022302, AF134726, AC004584, AC000353, AC000052, AC005695, Z98884, AC005231, AC004821, AC004000, AL121658, AC003109, AP000359, AL133163, AC004797, AL031283, AC007263, AC007536, AF001552, AC005368, Z99716, AL050318, AC005940, U91323, AC005280, AP000248, AP000558, AL031282, AC002543, AC012384, AC004139, AC009247, AC016025, AL035659, AC005913, AC005971, AP000514, AC002302, AC002350, AC002347, AC004477, AC005599,

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HMWIQ44	8090	716509	1 - 625	15 - 639	
HMWIO15	8091	956253	1 - 360	15 - 374	
HMWIM05	8092	861094	1 - 567	15 - 581	AA160427, AL912401, AA228442, AW272815, AA972523, AA484892, AA728911, AA449923, AL733856, AL860535, T74524, AW019964, AA502980, AL049643, AA653291, AA904211, AW270385, AL864500, AL041375, F23327, AA593537, AA485402, AA757758, AL537995, AL536858, AL130709, AA515351, AL142231, AA577985, AL989408, AA502977, AL434311, AL690379, AW237905, AW265688, AA827383, AA298365, AL791659, AW169038, AL139054, AC003029, AC006111, AC007216, AC006211, Z84480, AC005102, AC005519, AC004883, Z95114, U95742, AC007227, AC006312, AC005086, AL109798, AC005484, AC005412, AL008582, AC005229, L39891, AC005730, AP000355, AC005722, AL031728, AL009183, AC004230, AL022320, AL121603, AC002996, AC004583, AL022316, AP000090, AL109963, AC005372, AC004106, Z83840, AC007690, AC009247, AC005914, U78027, AC005933, AL109628, AF053356, AL035420, AC007240, AL022476, AL050318, AL031255, AC003101, AC006449, AC006064, AP000704, AC004000, AP000044, AP000112, AC007421, AC000025, AC005839, AC020663, AF207550, AC005696, AC004966, AC004019, AC002128, AC005031, AL031447, AC005971, AL031311, AC005071, AC004819, AL021393, AC004876, AL023575, AL035422, AP000067, AC004975, AL096701, AC005776, AC004253, AC003109, AL079340, AL035423, AC004859, AC005057, AP000689, U96629, AC005488, AC004813, AC007225, AC005368, Z98946, AC006317, U63721, AP000557, Z97056, AP000008, AC006511, AP000555, AC004963, Z93930, Z84469, AC005399, AC006285, AC004967, AC005670, AC004821, AC006539, AC002350, AC004851, AC005015, AC005261, AC005837, AC004955, AC005899, AC004884, AL035681, Z98044, AC004491, AC004263, AF190465, U80017, AC005081, AL121825, AL031681, AC005225, AL020997, AF196779, AC002310, AL034420, AL049569, AF134726, AC002040, AC002477, AL121652, AL031767, AC007308, AC006077, AC007226, D87675, AF001552, AC004383, U47924, AC007066, AC000353, AC007686, AC009516,

HMWIL08	8093	959512	1 - 708	15 - 722	AP000503, AC002039, AC006011, AL133163, AC004706, AL109952, AB023048, AJ010770, AF118808, AP000692, AC004638, AC008072, AP000143, Z98304, AC005632, AC007263, U91323, AC006023, AL022163, AL121658, AP000694, AP000687, AC004685, AC005756, AC003043, AL049757, AL034549, AL031685, AC005736, AC002544, AC004895, AC003982, AP000558, AC006001, AC004595, AL022336, L78810, AC006071, AF047825, AC002553, AC002404, AC006441, Z98048, AC004382, AC002470, AF165926, AC005562, AF205588, AC002425, AC004686, AC002565, AC007993, AL034548, AL049776, AL035400, AC004962, AL024498, AC002045, AC005828, AL022165, L78833, AL031680, AB020868, Z93241, AC004234, AF111168, AC005940, AC005844, AC006360, AL035413, AC005180, U62293, AF111167, AC004132, AC006013, AL031662, AC006480, AC007917, AC004797, AC002094, AC005274, AC002395, AC005746, AC004167, AP000045, AC002476, AP000511, Z83844, AL023553, AL009181, AL133448, AL135744, AC005200, AC004125, AC005972, AC005841, and AL031666.
HMWIL08	8093	959512	1 - 708	15 - 722	AI377192, AI184080, AA450266, AW026855, W65480, AI869635, H92183, H14198, AA974576, R58922, R90834, H97357, and AA351111.
HMWIK10	8094	964701	1 - 611	15 - 625	AA776466, AI470184, AI742757, AI750964, AA865422, AW005649, AI750965, AI969031, AI741029, AW139279, AA338882, AI445299, AW341808, AB032959, and AL021393.
HMWIG75	8095	767332	1 - 318	15 - 332	AW193265, AW408717, AI613280, AI350211, AI281881, AI270117, N53150, AL046409, AA623002, AI860013, AA828704, AI284640, AI334443, AI431303, F36273, AI358571, AA490183, AL119691, AA482711, AI799642, AA587604, AI754658, AW083402, AA613203, AA834707, AW261871, AL038705, AW438643, AA577906, AW083364, AW270270, AL044940, AW276827, AL037683, AA806796, AA722372, AA720702, AA551503, AA493471, AA613232, AI370074, AL041690, AW338086, AI370094, AA862173, AI133164, AA535661, AI570261, AI457397, AI375710, AA503947, AI744995, AI688846, AA584167, AI053672, AW274346, AA599920, AW193432, AI814735, AI471481, AI286356, AA631507, AA723017, AI634384, AI744188, AL038785, AA364429, AA719805, AW020141, AI696962, AI376100, AI921649, AA630925, AA491814, AW406447, W79504, AA134367, AI537955, AA213741, AA649642, AI281697, AI499938, AI368745, AA525824, AA664015, AI076616, AA362349, M86143, AI956124, W05405, AI559705, AA219129, AA661921, H71429, AI798473, AI969436, AA501600, N66026, AA368936, AA126777, AA350859, AA594725, AA601388, AA984708, AI963720, N27763, AA164251, AA469451, AI370878, AW148792, AA244357, AI017024, AL138455, AL040921, AI002834, AL043009, Y18431, X95097, AF077058, X55932, AF015167, D83989, U57005, AF015147, X55925, U18391, U18394, U0392, X54179, A39972, X55926, U57009, X54180, U18395, U18393, I51997, AF015157, U12582, X55927, U67801, U57006, X53550, X54175, X54181, X54178, U18398, X75335, U57008, U67832, X55924, U18387, X54176, AF015166, U67831, X55931, S75201, U18390, U04355, L47228, Z22650, AF015156, X55923, L35531, U67829, AL033543, U67827, AF015151, X55929, AF015149, X62356, X55930,

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HMWIG26	8096	861091	1 - 354	15 - 368	R91765, H80580, AI127315, and W69323.
HMWIG17	8097	663972	1 - 473	15 - 487	W92749, AA13553, AA723171, AA971474, AA716724, AA723148, AI129477, AA722631, AA126701, AA759279, AA128243, AA054734, AW130619, AI342776, AA521028, AA758558, H30397, AI312713, AW007796, AA814686, AI458733, AI911961, AI356318, AA448696, R50475, AI992039, AA885885, AI335606, AA448808, AI244820, AI243873, AI692581, AI018349, AA746499, AA831847, R69848, AA045310, AI279451, AI540785, W84621, AA648741, AI686115, R23217, AI652242, AI277449, AA983572, AI199899, AA977601, AA434264, AI284514, AI356077, H30405, AI061132, AI148418, AW300520, AA040698, AI969976, AW083124, AI160129, AI424072, AI536950, AI093214, AI089947, AW170119, AA811443, AA936383, AI142495, AW006134, AA447432, AA401210, AI831954, AA383372, AI371031, AA555078, AI189568, AI830792, AA043162, R69469, AI401693, AI738759, AI910399, AI188058, AW090281, AA641027, Y17454, AF159025, and AB030835.
HMWIG01	8099	913689	1 - 147	15 - 161	
HMWID28	8100	419821	1 - 585	15 - 599	T92652.

HMWIA19	8101	928488	1 - 256	15 - 270	
HMWHZ43	8102	861097	1 - 364	15 - 378	AA872717.
HMWHW8 2	8103	779903	1 - 277	15 - 291	H71976, and AC004128.
HMWHV36	8104	708099	1 - 364	15 - 378	T82833, and AW404502.
HMWHV12	8105	970742	1 - 408	15 - 422	W69602.
HMWHP86	8106	785510	1 - 305	15 - 319	AI952414, AI821854, AA594979, AI821710, AI253514, R06129, AI735011, and AA641406.
HMWHD94	8107	794306	1 - 214	15 - 228	AA158392, AA226584, AA484143, AI02734, AI298246, AI241835, AA311194, AA640704, AW075845, AC005480, AC004955, AP000512, AI049759, AC005221, AP000359, AC002350, AC016025, AC006480, AF064861, AL035072, AC004765, AJ003147, AC003029, AC002375, AC004805, AC005037, AC004883, AC004921, AC005755, AC006285, AC005803, AC005484, AC006538, AC006065, AL050348, AC008126, AL137191, AL022326, AL049780, AC005940, AL096791, AL031432, AC006166, Z84480, AC002420, AC005971, AC007695, AB023051, AC002115, AL049871, AF196969, AF091512, AC004865, AL078614, AC007738, AF195658, AC006530, AF067844, AC004821, AC007537, AL031602, AC003982, AC004701, AL023494, AC007360, AC002425, AP000114, AP000046, AL132994, AC007639, AC002351, AB020865, AP000269, AC008134, AC005746, AC005519, AL121652, AL031281, AC005887, AC005921, U73636, AL031255, AL132987, AL096701, AC004000, AC006064, AP000032, AP000035, AC005291, AC007387, AL035458, AB023049, AC005520, AL022313, AC019014, AC004890, AC006344, AC006387, AC005696, AP000103, AL035086, AC006251, AC005409, AL034417, AC002565, AC005768, AP000556, AC008101, AP000260, AC004682, AL035413, AC004796, AC006449, AL035587, AC007688, AC006138, L44140, AC006522, Z83851, AC004019, AC006039, AL022345, AC004596, AC006312, Z69838, Z84484, AC005091, Z93017, AF053356, AC004854, AC007193, AP000208, AP000130, AP000099, AC002470, AC004963, AL132777, AL021391, AP000247, AP000344, and AC005922.
HMWHB71	8108	565104	1 - 1244	15 - 1258	AI707744, AL120282, AI688963, AL046225, AI045756, AI268019, AC006942, AC002565, AC006430, AL034555, AC007686, AC004816, AC005231, AL080243, AC002425, AC006111, U07562, AL035455, AC004491, AL133163, AC004832, AC004922, AC003101, AC009516, U95740, AL020997, AL021546, AC005740, AL031255, AL031283, AC006126, AC002551, AC007216, AF196779, Z83732, Z85986, AL079342, AL035420, AP000553, AC004967, AC005015, AL024507, AL020995, AC005736, AC004257, AC004067, AL031228, AC002288, AC004887, Z94044, AL022322, AC012384, Z97054, Z83822, AP000030, AC006285, AF205588, AF111168, L78810, AC016025, AL133245, AC006001, AC005291, U95742, AL096701, AL049749, AC000052, and AC007934.
HMWGW7 9	8109	646280	1 - 652	15 - 666	H29797, H08896, and H70302.
HMWQG48	8110	861114	1 - 633	15 - 647	AA878492, AC005907, AC005089, L78810, AL031311, AL096791, AC007055, AP000359,

					AL078581, AC005841, AC006011, Z86090, AC004893, AC007225, AC006285, AL009181, AP000511, Z98742, AF190465, AC005412, AC004134, AC007308, AL109984, AL021154, AL096701, U07563, AC007546, AL034399, AL035086, AC004033, AC007227, AC005006, AC005844, AC005288, AC004531, AC000052, AC005746, AC002350, AL022721, AL121658, AC002369, U85195, AL049760, AL049780, AL080243, AC004685, AL034420, AC016025, AC005225, AC004000, AL133246, AC005544, AC004067, AC003098, AL121652, AE000658, AP000117, Z85987, AC005015, AF042090, AC004913, AC004859, AL033521, AL021918, AL031587, Z98743, AC003108, AC005500, AC004638, AC007283, AC004841, AC007731, AC003042, AC004263, AC006121, AC006530, AC006449, AC005519, Z85986, Z95113, AC007666, AL034549, AC004167, AP000211, AP000133, AF111169, AL022330, and AL022476.
HMWG179	8111	774806	1 - 688	15 - 702	AI821938, AI755214, AI754567, AI754105, AI038990, AI016192, AI354847, AW131356, AI249688, AW328331, AI038304, AI744788, AL045077, AA449468, AA640277, AI569100, AI243789, AW192599, AI859438, AI733856, AA578832, AI278972, AA713829, AA483606, AI889426, AI053398, AA653291, AA570740, AI281561, AA315361, AA177061, AI080307, AI249365, AA568204, AA483075, AI791659, H07953, H43771, AA634991, R87275, AW151247, AW089625, AL044339, AC005089, AF029308, AL031281, AP000065, AP000301, AC005722, AC005702, AC002544, AC007021, AC012627, AC005529, AF111168, AL009172, AC007216, L78833, AC005071, AL008734, AC005207, AC006130, AL031447, AL022320, U95742, AF129756, AL034420, AC000003, AP000555, AL117694, AP000501, AC005527, U52111, AL121603, AC008134, AL031123, AL034417, L44140, AC004849, AC005531, AC006312, AL049795, AC007676, AB023048, AF134726, AL049869, AC003043, AC007276, AL109827, AC008123, AC005911, AL049636, AL022318, AC000025, AC007308, AL136295, AP000503, AC006040, AC005231, AC007191, AC004019, AC004656, AF039906, AC006011, AC003982, AC004834, AC006501, X87579, AL031005, Z98884, AP000355, AC004895, AL049872, AF030453, AC018633, AL135744, AL049694, AB023049, AC007376, AC004686, AL035587, AL049776, AC002394, AC005228, AL109798, AF109907, AP000553, AL049712, AC004797, U91326, AL109759, AC006285, AC004878, AC008372, AP000552, M63796, AC005839, AL049766, AL008583, AL121658, AC006581, Z85986, AC005618, AL022238, AC004832, AL080243, AC000070, AL021977, AC005288, AB003151, AP000688, AF165926, AC005841, AC006241, AL008582, AC006449, AC006077, AC005081, AL135960, AJ131016, AC005530, AL078581, AC004552, Z95114, AF047825, AC006453, AC006254, AL021939, AC002430, AP000045, AL139054, AL121653, AP000512, AC020663, AC004706, AC007666, AC004820, AC005209, AC005899, AC005332, AP000511, AC005274, Z99716, AL078638, AC006084, AL035072, AC005568, AC009464, AC005399, AC007384, AF196969, AC000120, AC006211, AC010170, AP000513, AL050318, U47924, AC007684, AC007227, AC016025, AC006064, AC005280, AL022721, AF207550, Z83844, Z93241, AC005914, AL035249, AP000152, AC004655, AL049643, AC005067, AC004762, Z84469, AF030876, AC004159, AL023575,

						AC007226, AC006509, AC005701, AL049759, AL132712, AC007546, AC002477, AL049780, AC005632, AC005921, AC005821, AC006251, AC006277, AC005387, AC006538, AC002347, AC006317, AC009516, AF037338, Z98742, AL031848, AC003688, AC005520, AC004841, AC004386, AC005037, AC008171, AC005363, AC004858, AC004216, AC005377, AL133448, AP000130, AP000208, AC004854, AL022316, AC005544, AP000505, U82828, AC005500, AC002527, AL031255, AL008718, Z85987, AC002115, AC005015, AC004859, AF053356, AC004526, AP000692, AF200465, AC004985, AL031591, Z93017, AC002350, AC002985, AC007225, U85195, Y10196, AC002314, Y14768, Z93023, AL031670, AC005736, AC005971, AC004659, AC006023, AL033381, AL096701, AC005666, AC005484, and AL096703.
HMWGH30	8112	455037	1 - 288		15 - 302	
HMWGB06	8113	935593	1 - 332		15 - 346	AA928968, AI143152, AW296605, AF064858, and AL121757.
HMWFFY93	8114	506636	1 - 444		15 - 458	R34758, and AA642317.
HMWFN80	8115	573608	1 - 334		15 - 348	L81392, AC004749, and L81391.
HMWFN37	8116	861123	1 - 452		15 - 466	AJ003358, AA453553, and AP001061.
HMWFN32	8117	573603	1 - 295		15 - 309	Z60346.
HMWFI18	8118	666681	1 - 334		15 - 348	R89320.
HMWFG88	8119	592078	1 - 588		15 - 602	R10175, AW401608, AW403120, AC004233, AF014118, and AR003664.
HMWFD86	8120	785629	1 - 400		15 - 414	AA251682, AA601385, AJ003636, and AP000523.
HMWFD68	8121	861124	1 - 148		15 - 162	AA730422, AA574448, W01639, AA890425, AI053458, AW303008, AI123396, AA716211, AA702098, AI524453, AA449923, AA368616, AA077285, AA832077, AI142231, AA483108, AW378752, H56003, H42968, AI888419, AC005412, AL021877, AC005372, AC005254, AC005531, Z98304, L78810, Z84469, AL133445, AC000355, AC002988, AF165141, AC002558, Z76735, AL133500, AC004593, AL033527, AL034351, AC005566, AC005255, AC006581, AL049636, AL109798, AC005852, AL008582, AC007201, AC005736, AC004933, AF061032, AC000117, AC004993, AL121754, AC011594, AL035691, AC006277, AP000552, AC004382, AC006985, AC004918, AL049743, AC002544, AC004542, AC007279, AL022336, AP000691, L34160, U20499, AL008637, AC005666, Z82184, AC005969, AL021939, AC000061, AC004813, AF030453, AC006014, AC005088, and AC004674.
HMWFC64	8122	573596	1 - 311		15 - 325	AI284640, AI370074, AA469451, AI334443, AA720702, AI370094, AW303196, AW193265, AI312309, AA490183, AW085780, AW301350, AW274349, AI281881, AI350211, AA521399, AA521323, AW103758, AA984708, AI962050, AI613280, AI281903, AW261871, AW072923, AW407578, AW406447, AI610159, AW327868, AI138455, AL138265, AI801591, AA587604, AI732865, AA613227, AI567076, AW419262, AI619997, AA780515, AL048925, AI053672, AW238278, AW340844, AA491814, AI688846, AI375710, AL119691, AW438643, AW193432, AA177061, AI341664, AI379719, AA135842, N71728, AA468131, AI345654, AI471481, AL048626, AI754658, AA665330, AI799642, AI305547, AA947547, AW338086, AI744995, AI801701, AI718446, AW406162, AA177063, AI249997, AA577906, AI246119, AA747276,

					AI307608, AW270382, AA523843, AA649642, AA630925, AL042420, AI499938, AA610491, AA846935, AI564496, AI298710, W79504, AA502103, AI017415, AI289067, AI246796, F34498, AI345518, AI358501, AI798265, AI674873, AI733755, AI685198, AI537955, AA507547, AW406659, AL038705, AW376931, AI473943, AW269488, AW072587, AI371070, AI475569, AA448231, AA452563, AA623002, AA613345, AA599920, AL121235, AI919029, AA737318, AA581903, AW088058, AI110770, AI537506, AA055169, AI640702, AI469968, AW270270, AA551503, AA846957, AA678499, AI821271, AA682912, AI254316, AA744341, AI471572, AA491882, AI061227, AA679672, AA316905, R77905, AW103509, AI956037, AI357288, R88888, AA584082, AA493708, AA977743, AI245679, AA594145, AI709365, AA837677, AA661948, AA598997, AW085991, AI860020, AC006115, X54181, X54178, AC005529, U18391, U18394, I51997, U18393, U57009, U18395, X55925, X55926, X55927, X54176, AF077058, U57005, U18392, X55923, U18398, AF010317, AP000555, X54179, AC004882, U18399, AF015147, AF015157, U57006, X53550, X75335, S75201, U18387, U57008, Y18000, Z94801, AF015149, AC006958, AC004159, L78833, U18390, AC005007, X55932, AC006367, U95740, AF121781, Z99716, AL121655, AC005015, AL034420, AF015148, X76629, AL022323, AL080243, U57007, AL132800, AL132777, AC006486, AC005081, AC005235, AC005412, AF015150, M87919, AC002564, AP000497, U04355, AC005183, AL035423, U14701, AF045448, X55930, AL133396, AC004099, U18400, U67828, AC006480, U78027, Z85995, AC004531, M37547, Z95329, AC004028, AC007242, AF200465, U67231, AL035681, AC012384, AL031659, AC005274, AL079295, AC007055, X88791, AC006116, AP000014, AL132712, AC005971, AC002470, AF064861, AC006277, AC005215, AL078604, AC003101, Z49816, AC005565, AC009516, AC005940, AL034419, AC007666, AB020866, U67831, L81648, X03272, AC007227, AL049766, AC002094, U67827, AL022098, AC008012, AL031228, AL031286, Z81369, AL024507, AC005088, AC005531, AC005004, AL080238, AC006285, AP000477, U62293, U67211, AC006582, AL049872, AC004149, Z98744, Z96074, AC003043, AL031681, AC006057, Z84814, AC007308, AC005071, AC005911, AL035460, S77605, U67233, AL022311, AL121653, AC005037, AL008719, AC005527, U40369, AC004583, AF141309, AC004890, AC002996, AC005184, AC002456, AC000025, AC016026, AL121603, AP001172, AC006205, AC004816, AC007065, AC005778, AC005844, AC002077, AC000070, AL049647, AL035425, Z81308, X55928, AC007681, AC007919, AL133289, AC005783, AC011311, AC005288, X06123, AF116536, AC007324, U67825, AC005599, AC008101, AC004686, AP000156, AC016025, Z86090, AC005242, AL022476, AC004386, AC006042, AC005383, AL008728, AP001037, U67221, Y09781, AC008079, Z86061, AC009227, AL031589, AC007099, AF126531, AL035079, AC004643, AF207550, AC005923, AC005670, AF015153, AC007043, U35114, AC007073, AF010238, and AC004966.
HMWET56	8123	812712	1 - 246	15 - 260	AA947547, F26152, AA502103, AA450199, N43757, AW192154, AI049634, AA365347, AI921649, AA593060, M86058, N70648, AI434706, AA513999, AI358343, AI376100, N71557,

AA723017, AW074059, AI356904, AI564284, T53607, AI610159, AA714595, AA829106, AA828680, F07193, C18360, C18357, AA310158, AA634227, AI453383, AA503154, AI493217, AI889781, AI367975, AA654771, AI372413, F25135, AW071196, AA503283, AW265294, AA828704, AA372434, AA320748, AI9222654, AI821271, AI200051, AA594725, AA328591, AW008952, AI547286, AA338642, AI198376, AI216799, AA528516, AA384502, C19058, AW089789, AA633936, AA678436, F34558, AI285521, N53150, AI956124, AW069481, AA298136, AA358122, AI925556, AA349854, AI951889, AI284640, AI537955, AI583942, AI041368, AA648064, AI921673, AI859251, AI079667, AW088202, AA535661, F29702, AI749559, AA342256, AA649642, AA341228, AA297744, AA301813, AA642060, C05755, AI042213, AA502963, AA551798, AI446464, AA503284, AA584201, AA348929, C06327, AI282832, H64777, AW028400, AI951928, AI042853, AW264959, C17838, AW276817, F01188, F09736, N41759, AI205126, AA715362, AI688846, AA469451, AI971377, AA213741, AI138265, AA318652, AI471481, T28550, AI446601, AW083402, AI264743, AW020340, AI459379, AI653905, AI286356, T96279, AA350859, T07451, AA832148, AA837693, AW080134, F24284, AA190911, F36273, AA653975, AW440976, AI249997, AW236342, AA515435, AW169537, AA300016, AA503947, AF039185, AA100599, AA491284, AA626747, AI053677, AI054063, AA856954, AW275736, AI281697, AI251002, AI962050, AA320113, AA985038, AA515751, AA346458, AI053672, AA569306, AA630925, AA368936, AI821028, AA441788, AA648150, AI821279, AW023672, AW303876, AA593247, AI133723, AA364701, AA557879, AI792518, AI037850, AI859742, AA776936, AI246409, AA776921, AA626678, N66945, AA659083, AA670158, AW249224, AI886365, AW248803, H86860, AA132999, AA083136, AA749274, AA359366, AI281881, AI041382, AF150152, M37551, AP000345, AI008629, U14711, U14712, AP000230, AP000144, AC005682, M62424, AR025392, AC002472, AC003775, AC007664, AC004941, AC004542, AL031123, AC001164, AC005944, AC004263, AC004592, Z95114, AC005250, AC009233, AC004066, AC006275, AC004858, AC004687, AI109984, AC004184, AC004862, AF042090, AF109907, M87916, AP000356, AC006205, AP001172, AC005838, AP000352, AC006464, U73684, L48038, AI031846, AC002301, AC002070, U96409, Z84718, AC006525, AC004783, AL031733, U82668, AC000026, AC003007, AC007536, AL031729, AC002059, AC000075, AC005632, AC005280, AC005696, AL031685, AC004975, AF002996, AC005785, AC002350, AC005866, AC004895, AP000346, AL031965, AC005599, AL031719, A91686, L78833, AC005520, AC008040, AP000299, AC004743, AP000350, AC005251, AC005353, AC005664, Z85986, AC008039, U38667, AC007216, Z75746, AL050318, AC006026, Z99716, U69569, AC008071, AC005041, AC004035, AF003627, AC006160, AL033521, AC004675, AC005341, Z98257, AC002525, AP000353, U47924, AC005217, AC007848, X75335, AL117694, AF030261, AF088219, AL109799, AL022238, AL021368, D83737, AL021977, AC006539, U95742, AL121934, Z86062, AP000045, AP000113, AL132642, M16110, U62292, AL133233, AF002994, I41409, AL109985, AL096707, AF001552, AJ003147, Z83313, AL049643,

HMWEQ52	8124	728535	1 - 470	15 - 484	AC005368, AC006356, AC004712, Z97196, AL031675, AL033523, Z93244, AC007263, AL049745, Z86061, AC001531, AC005911, AC005072, Z84719, AL022323, AL078477, AL049759, AL033518, AC007239, AL031276, AC007842, AP000351, AC005681, U80017, AC005888, AL121603, Z99755, AC002460, AF045555, Z99129, AL049869, AL096774, AL031681, AC005778, AC002985, AC005197, AJ251029, AC005771, Z99774, AL034371, I34189, AL096768, AC003684, U63721, U91322, AL031255, AL033381, AC005740, Z82244, AC006001, U57009, Z82901, AC004745, AC005856, AC005184, Z69918, AC005837, AL133396, AC003686, AC005900, AL049830, AC000003, AC005081, AC016025, AL035688, AF006752, AL049757, Z95124, AC006430, AL035460, AC005781, AL049613, I51997, AP000692, AB020863, AC004799, AL035089, AC006221, AC006251, AP000193, AP000049, AC006211, AC004638, AC004983, AC005284, U66061, AC000353, AC007565, AL132992, AC005228, AP000555, AP000020, AP000161, Z92540, U95740, AP000311, AC006332, AC005102, AC002119, AC004987, AL034423, AC005177, AL050312, AC000396, AC004802, AP000117, AC002073, U34055, AL022337, AC006571, AL035448, AL133245, AC005288, U34052, AL078463, AL035411, AC004453, AC006925, AC007878, and AL078639.
HMWEN61	8125	909931	1 - 318	15 - 332	AA255655.
HMWEL56	8126	733583	1 - 250	15 - 264	AA909291, AI808906, AW292487, AA28414, AA811421, AA486892, AI282535, AA419482, AI571878, AA436479, and AF020313.
HMWEI53	8127	861141	1 - 192	15 - 206	N51780, AW407881, AI160515, AA400967, and D87447.
HMWEA91	8128	790331	1 - 527	15 - 541	H82464.
HMWEA10	8129	968105	1 - 574	15 - 588	N34786, AI806471, AA570657, AA234475, AA738273, R70183, AA234112, R71398, and AI927958.
HMWDZ25	8130	678724	1 - 213	15 - 227	AI378834, AA232793, and AA232649.
HMWDR15	8131	660522	1 - 404	15 - 418	T83764.
HMWDP06	8132	935903	1 - 174	15 - 188	T06969, R27224, and AB028962.
HMWDN60	8133	974425	1 - 363	15 - 377	
HMWDH55	8134	732304	1 - 435	15 - 449	
HMWCT43	8135	715575	1 - 471	15 - 485	W84769, AW136382, AA009763, and AC004522.
HMWCR88	8136	955258	1 - 326	15 - 340	T81746.
HMWCH47	8137	720581	1 - 356	15 - 370	N94798, and N94764.
HMWCH04	8138	615628	1 - 602	15 - 616	R11783.
					N40606, N29201, H96518, N27833, AI925321, AI926681, AI860677, AI244758, AW272794, AA984191, AA826144, AI886060, AL044590, AI886365, AA987962, AA528441, AL039187, W90237, AI090334, R54896, AI079423, C16699, AL046746, AI954525, AA181773, AA206807, R59567, AI446601, AA507837, AW024210, AW152611, AA769114, AI305258, AW075915, AA729264, AL038936, F32893, AA832130, AL038909, AI471418, AI073888, AA196390,

					AA563770, AA328169, AA679266, AC006511, Z82097, AC005940, AL008635, AB007915, AP000300, AP000113, AP000045, AC004832, AL031662, AL031774, AC002542, AC005164, Z82181, AC006277, AB011542, AC004996, AL030309, AL031058, AC011362, AL117328, AP000503, AF134726, AL035659, AL035420, AC005399, Z49250, AC010582, AC004460, L48038, D83253, AL031589, AC006148, AC000026, AC002059, AL008706, AC003041, AC005368, AC005823, AL034394, AC007688, AL049780, AC006142, D84149, AC002991, AC004755, AC005694, AC005837, AC005529, AC012599, AB011129, AC004771, AL080243, AL031230, AC005081, AP000474, AC003077, AP000210, AP000132, AL049759, AP000248, AC005225, AL096818, AC004498, AJ006216, AP000542, AC004019, AF069074, and AC005391.
HMWCG38	8139	851630	1 - 598	15 - 612	N58418, AA034158, W74493, AW006009, AA015719, AA780267, AI445745, AI056261, W79090, AA400216, N78008, AI937396, AI191881, W73497, W23486, W67606, AI564573, AI374806, AA293838, AI097007, T95431, AA603085, AW295073, AA127181, AI122613, N26542, H84552, N39425, H55969, AI697129, T78468, AI090556, AA564396, AA748523, AI268509, N64022, AI168016, AI080325, AA053402, N48541, AA694390, AA651930, AA400127, W67558, AI268614, AI369805, AA450021, W69403, AI261755, W73515, T78545, N95084, AA618523, N73360, AA280628, R11610, AA846680, AW265361, R10576, AW023512, R19400, AI924654, N73360, AA280628, R11610, AA846680, AW265361, R10576, AW023512, AI000971, C15592, R57045, AI085385, AA767586, AA830670, AA843900, AI817930, AA648329, AI143166, AA625706, AW385518, AA744945, AA383319, N89865, AI219903, AA403263, AA890669, N28373, AI091949, AI458483, AI299215, AA865342, AI052655, AA227192, N90503, AI041241, AA890424, AA056457, AI865626, AW265454, N53860, AI708757, H55970, AI547137, AI541216, AI535787, and AIJ132931.
HMWBZ89	8140	787111	1 - 357	15 - 371	H49239.
HMWBT59	8141	893995	1 - 274	15 - 288	AA368664, AL043880, R62399, AA523876, AI915189, W05294, AA423981, AW339362, AI056132, AI873659, AI636417, AI812097, AI274942, AI349372, AA922395, AI168791, AW083986, AI266219, AI859189, AW194157, AI683304, AI199896, AI269181, AI625514, AI199890, AW130160, AA128362, AI338926, AI288535, AI339682, AA114897, AI091057, AI671452, W90768, AA810411, AA114896, AA137033, AA528033, AI743815, AW005102, AA523117, H48227, AI886641, R38443, F05074, AI680503, AA938005, AI862000, AW204921, R62400, AI305176, W90701, AI990810, F08811, H79690, AI023431, F04534, and T05279.
HMWBT05	8142	932558	1 - 461	15 - 475	N20587, AA225583, AI391633, N28979, AI620540, AI601267, H24714, T49309, AA225604, AA987298, U73643, AL136842, X57796, and AB016226.
HMWBI77	8143	888862	1 - 533	15 - 547	
HMWBI40	8144	712730	1 - 603	15 - 617	T80378.
HMWBI29	8145	927321	1 - 625	15 - 639	T74339, AA007592, W90626, AA680304, AA954254, AI133697, W60511, AA007389, AA767198, AA143074, AA987383, AA313708, F12509, Z44513, W90249, AA827641, AI141189, AA401334, AA747585, F25999, AA575866, AA313726, F22587, AA730678, AA664969, F33617,

					AA315506, AI358423, AA515848, N98867, F19304, F37060, AA156103, F37437, W58769, F33656, AA157759, AA608827, AA728989, F25212, F24956, AA740468, F36060, AA737291, AA492193, AA932208, AA090406, AI291661, AA705812, AA889507, F24362, AA194358, F31772, AA148433, F27422, AA741404, AA308290, AI536594, AI276978, AA314904, AA384045, AI143027, AA382505, AA526390, F29957, AA314719, AA974467, AI826775, F27860, F32057, F31800, AA995725, AI282169, AI933136, F24856, AW022412, F34156, AA491525, AA192185, AA579682, AA594575, F19218, F22463, AI749361, AI384039, T57362, AI810403, F20992, T35918, F29662, F21312, F29723, F23580, F35367, F31884, AA385186, AI867973, F31246, F20491, AA143134, F24202, AW368325, AI701341, F29466, W88582, AA976781, AW241684, F37748, F29835, AA492088, F30675, F27384, N55638, F35170, F27612, T57445, F23553, F34612, W04663, T23491, Z40911, T16443, AA528421, F34150, F29578, AA639064, N89217, F31547, N56464, F34856, F33998, F24124, AA247353, AA316521, and AB017710.
HMWBG16	8146	859404	1 - 200	15 - 214	AA398006, and AI650862.
HMWBB42	8147	714114	1 - 484	15 - 498	R11451, and AA018329.
HMWAJ04	8148	586507	1 - 740	15 - 754	AA558616, AA578017, AA558697, AA578251, AI053465, D29241, AA649705, AA595825, AA810370, AA127636, AA713922, AA523815, AA304977, AA346575, AA834755, AA970213, AA451990, AA557970, AA341336, AA336362, AA574110, AA649722, AA483731, AA973803, AA515435, AA719080, AA078691, AA644207, AA446657, AA524838, AA559290, AI446638, N52544, AA077817, AA259186, AA161083, AA484670, T49241, AI205126, T16056, AI046457, AA487858, AA280632, R83443, AA461233, AA804379, AA720691, AA670468, AA503473, AA634145, AA847984, W56203, AI355238, R29012, AA678772, AA602528, AA876314, AA626747, AA513972, R95704, AA134959, AW083402, AA582911, AA480790, AA663486, AA522942, T15897, AA584751, AA873560, AI890918, R97634, AA605032, AA721615, AA996214, W05364, AA215474, AA845843, AA988259, AI471481, AA721981, AA252263, T10560, AA578349, T03722, AA437161, AA233519, AI037914, AA910125, AA078537, AA450089, AI041499, C14793, AA678443, AA559305, AI284640, T36219, H64778, T08438, AA678499, AA308806, N55273, H10994, AA330380, AA613421, AA350859, AA826793, AA209164, F19258, AA644551, T86755, AA196796, AA838096, AA525824, AA325699, R38154, AA834622, T54108, AA630606, AA780797, AA516527, AA486885, AA491284, AA102006, AA358321, AA703707, AA525876, N46153, AA194761, W80462, AA525249, F23249, AA551201, AA806796, AA323749, AA788858, AA527958, AA825455, AA665021, AA521355, AA533092, AA586562, AA167643, AW167267, M77899, T94075, F36273, AA492166, AA134347, AA206935, AA059472, F35659, AI567577, AA578141, AA525151, AA572713, F01658, F01141, AA552885, AA550758, AW236342, AA601222, AA837718, AI023082, AA593359, AA095511, AI648558, AA810269, AA357552, AA714055, AA491437, AA342901, T71030, AA650271, N69316, AA749274, AW088058, F10081, F29989, AA523020, AA302963,

					AA663469, T41050, AA515909, D57369, AA012897, AT053672, AA259245, A1110770, AA579736, AA401657, AA601499, AA365302, AW302013, AA524809, AA326441, AL048925, AA357937, T58344, AI887483, AA640034, AA533036, W38404, M87918, AF205592, AL132985, AC005562, AL049709, AP000302, AP000114, AP000046, S83362, U14694, AC006004, AF109907, X07258, U02048, U02054, AC004858, AC003086, AL121652, M94631, AC007193, AB012251, AC005730, L41140, AF193806, AC006163, U14702, U14689, AC003661, AC002115, AB023049, AC002350, AC004111, AC006241, U02044, AB023048, AC006409, X54156, U94788, AC005595, X62695, AP000510, AC010200, AC004534, AL121595, AC006213, U13056, AP000512, D49685, AL035072, AC006530, AF147275, AC004987, AC005771, AL031123, AC003663, X60152, AC004449, AC006353, Z73900, AC004810, AL022238, AC006596, X75335, AL109654, AL031732, AL034419, AD000092, AP000011, U47924, U58675, X58156, AL031687, AL031679, AC004596, AF029750, U14691, U14685, U14686, U14687, U14688, U14699, U14710, S41998, AC007358, AC002429, AC005912, Z99128, AL132777, Z84480, D37794, AF077058, AC007021, AC006928, AF053645, AF085444, AL031599, AC005901, AC002525, U14703, M87919, AL035450, AL035685, AC006137, AC005291, D83989, AL133404, AL035530, AC007314, AL021392, AP000513, AC007790, AC004167, AC005399, U14704, AC007066, Z84486, AC004234, AL078639, Z22650, AP000153, AL021546, U52513, AL132712, AL049761, AC007207, AP000455, U73633, AL133485, AL035448, AL031735, A26236, L04965, L77570, AC006948, AC006050, AC005754, Z99570, AC004615, AF011889, AL133238, AL049611, AC005566, AC005503, AL035681, AC000372, AC002106, AL080242, AC004408, AP000402, U95743, AC006362, AC007011, AB023052, AC002457, AC000087, AL023883, AL022329, I17291, AC005037, M77848, Z82208, AF147277, X83604, AL031653, AF060568, AC006138, AL121580, AC005610, AF038458, Z73420, U14692, AL031668, S61977, AC005895, AC001226, AL136018, AL078604, AC004031, AF130342, Z97205, AL022325, AC005600, AL008706, AL031983, U55180, AL049869, AL023577, AC004955, AF134726, AP000502, AL035086, Y12508, U14695, U14705, AL133224, L13709, L13713, AC003111, L13714, L13706, S75337, M87903, AL031283, AC004216, M77849, AC004825, AC005317, AC004477, AL079340, AF064861, AC005940, AC005060, AP000018, AC005191, AB011147, AF006752, U91319, AC002539, AC006277, AB020860, AB022537, Z69917, AC003102, L49046, AL031672, AC005221, AC007860, AF015170, AC004263, AL117258, AJ246003, AL031588, AC004760, AC006441, X55931, U95739, AL032822, Z82170, AC000119, AL049860, AC005200, and AL034429.
HMVDZ11	8149	966351	1 - 530	15 - 544	R83823, and AA157678.
HMVDV55	8150	811616	1 - 397	15 - 411	R56378, H05003, and R83285.
HMVDQ02	8151	919057	1 - 342	15 - 356	AA663501, AA862536, AW265642, and AW275747.
HMVDL45	8152	717384	1 - 827	15 - 841	H09382, R17471, Z44450, and F07290.
HMVDJ60	8153	877124	1 - 774	15 - 788	N46872, AA046610, AL589041, AI638264, AI888302, AW206234, AW135977, AI580058,

						AI657127, AW002540, AI660025, AI623109, AI381671, AW150855, AW206029, AW205466, AI973077, AI973087, and AI675515.
HMVDE10	8154	861184	1 - 730	15 - 744		AA460638.
HMVCY89	8155	786651	1 - 504	15 - 518		R11102, R11103, H47988, H81110, R11125, and AC005611.
HMVCY14	8156	657801	1 - 461	15 - 475		T96219, T79232, T96458, AF157101, and AF025884.
HMVCG26	8157	681174	1 - 354	15 - 368		R25770, AA249108, AI741586, and AC002519.
HMVBY77	8158	771974	1 - 563	15 - 577		T65331, F11774, F11773, AI364568, AA557911, R17490, AA196160, R10144, T60316, AA493829, AA150013, AA806789, AW151637, AW151645, AW151646, AI139971, AW249468, AA714190, AI624666, H81732, T56025, AI567148, AA363957, AA226679, AA484191, AI678754, AI360630, AI281401, AA515440, N63891, AI538106, AI273990, AI933478, AA434078, W67486, AA565319, AW023515, AI242432, AI242531, W87421, AI814959, W67485, T93105, AI689198, AA516058, AA599080, F25580, AA525332, AI149238, AA581317, AI300054, AW236163, AI823533, AI823535, R51582, AI933486, AA837325, AI421723, AA601265, T64444, AW084431, AA584635, H53189, AL119156, R92658, AL119182, T05617, AA361513, AA742764, AI254463, AI252005, AA564682, AW028834, AA601673, AL038977, AI299192, AI909229, AA613850, AA586433, AI869786, AI891075, AW058223, AA159006, AC006479, AC004859, AC004921, S68013, AC005531, AL008719, AL021528, AC006509, AC007738, AF001550, AC005217, AB023050, AF035968, AC000037, AC000032, AC004671, AC004491, AC007868, AL031005, AC004914, AC005609, AC005903, AC005327, AP000499, AB026898, AC012085, AL133163, AL049766, AC003689, AL031584, AC002347, Z84572, AP000556, AP000552, AL132987, AC006960, AL078581, AC005216, AF003529, AC004477, AC006006, AL035423, AC000035, AB020865, AL031276, AC004692, AL031230, AC000025, AC005527, AC008134, AC007917, AC005529, M76423, AC005952, AC004472, AL049631, AL121757, AC008372, AL049795, AL032821, AC005669, Z68284, AC007955, AL133238, AL049832, AC003690, Z92546, AP000010, AP000151, AL022162, AL135783, AL008630, AL023799, Z49866, AC004054, AL117355, AC007386, AC006121, AC005280, AL049776, AL031602, AP000245, Z69890, AC006541, AC005391, Z99297, AL096817, AC003983, AC005208, AC004000, AL022396, AC005484, Z97054, AC007384, AC009731, AC005821, AC005730, AL021939, AD000864, AF024533, Z83838, AL031985, AL049697, AC005088, AC000065, AL050341, AL031735, AL133245, AC007065, AC006312, AL109827, AC007025, AC005694, AP000171, AC004217, AL034402, AC006454, AL022241, AL117338, U72790, AC006020, AC004262, Z82901, AC004736, Z97181, AL121595, AC007276, AL021391, AC002476, Z54146, AP000298, AC005513, AF039907, AL023694, Z82190, AC004764, AC005255, AP000112, AP000044, AL109623, AL078604, AC002039, AC003015, AL021940, AC004912, AC005094, AC005089, AF134726, D84394, AC004805, AL135744, AP000689, AL022320, AL022318, AL023876, AC007285, Z81364, AC007314, AP000282, AP001054, AC005081, AC007731, Z99716, AC004616, AL078638, U95090, AC005841, AL021368, Z83839, AC006116, AC018633,

HMVBV16	8159	661692	1 - 584	15 - 598	AP000264, AP000279, AC006237, AP000130, AP000208, and AP000247.
HMVBV89	8160	786118	1 - 440	15 - 454	AA195746, AW292535, W88512, AI916149, and AA765346.
HMVBO83	8161	780366	1 - 870	15 - 884	R18969, and AA491495.
HMVBV91	8162	790025	1 - 506	15 - 520	AA028167, AI700675, AA035731, AI051312, AW207134, AI377083, and AI914607.
HMVBV52	8163	726546	1 - 435	15 - 449	AA973466, and R31969.
HMVBV44	8164	716410	1 - 372	15 - 386	W39569, AI638849, AI038503, W44924, AI203113, and AI864025.
HMVBV54	8165	888180	1 - 695	15 - 709	AA676928, and W86985.
					AI199183, AI799706, AI524226, AI658678, AI619916, H17863, AI679819, AA767653, AI567123, AI679243, AA993496, AI249113, AA846599, AI290066, AW168928, AA421148, AW001228, AI923054, W89146, AI358091, AA599007, AA969775, AA564967, AI696808, AI805502, C14005, F10215, AI860759, AA058367, AA705404, AA593588, AA581976, AI889279, AA700339, AI884486, AA350860, AI554646, AA447998, AI003564, AI860478, AI804832, AA206837, AW169777, AA887749, AI866503, AW193525, AA576924, T89112, AI277898, AW295179, H61752, AI214409, AA581255, T61678, AI701266, AA715116, AW067953, AA887759, AW188721, AA523949, AA652622, AA527474, T53110, AA402926, AW087438, W35420, AA206937, T49466, AA570117, T73430, AA548627, AI884326, AA448141, AA773851, H29750, and T53109.
HMVAT52	8166	726515	1 - 432	15 - 446	H13903.
HMVAF56	8167	732985	1 - 501	15 - 515	AA128982, AI149641, AI962865, AI871879, AI346313, AI024604, AA743300, AA293701, AA292933, AI470661, R40595, AW303434, AA833709, and AW005730.
HMVAF71	8168	761400	1 - 364	15 - 378	R59687.
HMVAF52	8169	861210	1 - 439	15 - 453	R53772.
HMVAC67	8170	751600	1 - 797	15 - 811	N72471, T80710, and AC009320.
HMSPH53	8171	861245	1 - 406	15 - 420	AA635986.
HMSPE04	8172	926800	1 - 788	15 - 802	AI056701, W60140, N36147, AI478510, AA181306, AA187045, C14014, T74524, AA828045, AA127426, AA487209, AI923052, AI356440, H07953, AA298365, AI254779, AA477503, AA757426, AW275498, AW438539, AA809546, AW084445, AI753092, AA657835, AA613630, AI051037, AW302711, AA581525, AA525823, AA879053, AI890324, T96582, AA593828, H51061, AI583106, AI377161, AI345891, AA164891, AA484892, F23338, AA745383, AI355103, AA074143, AA375133, AI311276, AA701080, AC008038, U85195, AE000658, AC005921, AC009247, AP000115, AC006953, AC006057, U91326, AC005231, AC004531, AC003982, AC007371, AC005180, Z94802, AL078621, AL121655, AC004217, D00591, AC006312, AC005399, AC002056, AC004447, AC002550, AC005722, AF002223, AC004962, AC004890, AL135960, AJ131016, AL022476, AL109798, Z84466, AC005288, AC004216, AL024498, AC005081, AC000082, AC007228, AC007308, AL133163, AL050332, AL050348, AC004158, AC004817, AC002544, AC006211, AC002470, AP000032, AF015262, AL022322, AC004491,

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HMSPA30	8173	861265	1 - 491	15 - 505	AA005143.
HMSOQ28	8174	861287	1 - 460	15 - 474	AI890285, AA853569, D87435, and AF068755.
HMSOJ88	8175	861292	1 - 588	15 - 602	AA179756, AC007842, and AC006312.
HMSOJ01	8176	915084	1 - 779	15 - 793	AA449866, H64299, AA760923, AI243157, AI537197, AA807264, AA810059, AA490995, AI186126, AA810429, AW188231, AI917502, AI076044, AW016048, AA131996, AA724113, AA131830, AA741064, AA737445, and AB020677.
HMSOH03	8177	922828	1 - 743	15 - 757	R60302, F06228, R18381, AW378532, AA635310, AC004851, AC005529, AC004887, AC004813, AL022319, Z84484, AC002115, AL022316, AC007842, AC004874, AC004967, AL031428, Z77249, Z95116, AL034429, AC005015, AC005594, AC003041, AP000071, AC006388, AC010209, AC004216, AC003101, AC005527, AL121825, AC004794, AC005592, AC007425, AC005251, AC010206, AC008119, U91321, AL049576, AC006536, AL049631, AC002312, AC004526, AC004223, AC005041, AL020997, AC006241, AC000379, AC004859, and AC004913.
HMSNP06	8178	934161	1 - 424	15 - 438	AI362898, and AB007866.
HMSNG04	8179	926845	1 - 418	15 - 432	F23240, and F34475.

HMSMY10	8180	963431	1 - 418	15 - 432	AA694078, and T85377.
HMSMW91	8181	861336	1 - 117	15 - 131	AA677723, and AA376375.
HMSMW64	8182	861338	1 - 710	15 - 724	AA489878, AA773463, AA828637, AA613232, AA626040, AI580250, AA640710, AI932599, AA507822, AA559241, AI912401, AI933714, AI457389, AA633798, AA502683, AA515048, AA535216, AA157845, AI500453, AA714282, AW073510, AA581247, AI350211, AA146595, AA832145, AA146578, AA760808, AI022554, AI439910, AA837035, AW302013, AI783911, AI570943, AW090144, AL044471, AA452887, AA410828, AI056177, AA493226, AA501794, AI434695, AA847499, F08248, AA487726, AA564779, AA548040, AI524360, C15363, AI216151, AA779783, N58329, AW193265, AW275719, AL043105, AW021583, AA877992, AL048925, AI347810, AA228778, AW265735, AI471572, AA580808, AI017251, AI554471, N71033, AI244127, AA515133, AA229912, AI471691, N72524, H58354, AA405493, AA651639, AI923052, N95817, AW069769, AA630854, AW338179, AW438643, AA862243, AI002734, N64587, AI620585, AI561116, H07953, AI270476, AA666295, AI382825, AI004591, AA489806, AA302973, AA084609, AA410788, AI888468, AA749235, AA613627, AA532700, AL079734, AA904275, AA262752, AI674840, AA586661, H85792, AA491814, AA496927, AI580707, AI915293, AI355803, N22037, AA908431, C14967, AI284640, AI252506, AI356440, AI805535, AI805350, AA806796, AI186438, AA302327, AA491955, AA464739, AA569471, W02403, AW272294, AW163763, AA721158, AA658362, AI377413, AA488746, AI049643, AC000003, AC005763, AL035422, AC004967, AC005225, AC005619, AC010205, AC005409, AC004491, AL080243, AP000512, AC004963, AC005399, U91323, AC005808, AC005531, AC006276, AL109801, U78027, AC004585, AP000501, AC006449, AC010170, AC007546, AC002558, AL035587, AP000513, AC004209, AC007193, AC002319, AC005069, AP000510, AL049869, AC004598, U73636, Z97054, AL034420, AC003108, AC002350, AL031291, AC006275, AL133448, AC005274, AC004913, AC003030, AC007308, AC005305, Z82206, AC005330, AC004878, AL117354, AC004832, AC005175, AL035398, AC005412, AB014077, AC002369, AL049699, AP000236, AC007151, AC005231, Z98051, AC002425, AC004655, AC004774, AL031311, AL121658, AD000092, AL031848, AC000134, AL031427, AL049576, AL079340, AL008635, AC002996, U62292, AC004228, AL109847, AC005740, AC005919, Z93023, AC007226, AP000173, AC004686, AC004590, AC005914, AC004876, AL034553, AC007993, AL008582, AC004382, AC002492, AL022312, AC007227, AC004149, AC006023, AC005971, AF045555, AF045533, AC004049, AF047825, AC004797, AC007842, AL035685, AC002115, AL022724, AC005200, U91326, AC004099, U63721, AC006121, Y18000, AC005067, AL031685, AL031283, AL034429, AL023575, AL022165, AC006317, AL109984, AL109798, AC005253, AC007030, AL049776, AC004859, AC007565, AC007036, AC007229, AC006285, AP000091, AC002351, AC005736, AL031186, Z95115, Z83826, AC005512, AL079333, AC002395, AC005952, AF107257, AF111169, AC007792, AL035462, AC007435, AL049569, AC005086, AP000289, AC006430, AC007055, AL049540, U85195, AB023049, AF038458, AC004447,

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HMSMO59	8183	861341	1 - 595	15 - 609	AA132854, and AA132760.
HMSMN71	8184	927097	1 - 635	15 - 649	AI114712, C06057, AA873553, AW439714, AA488984, AA758246, AI379212, AI038707, AI565960, AA313336, AI039448, N70571, N24921, W04529, AA648488, AA576689, AA857397, AA452806, AA016215, AA843067, AA021506, AA834369, AA946685, R74086, R47997, AA887520, Z17365, AA450285, AA037649, AA805193, R53996, AA749374, AA736873, AA865979, AA932132, M85870, AA515596, AA936679, AA716202, AF176069, AF177345, and AF177346.
HMSMN26	8185	861345	1 - 489	15 - 503	W01688, AW271556, T92856, AL008627, AC005295, AC003109, AC005003, and AL133485.
HMSLH07	8186	953390	1 - 168	15 - 182	AA483479.
HMSKQ08	8187	861372	1 - 513	15 - 527	
HMSKH24	8188	495770	1 - 562	15 - 576	
HMSJX84	8189	783032	1 - 484	15 - 498	HI0256, T16964, and F07075.
HMSJW48	8190	852496	1 - 2155	15 - 2169	AA411943, AW195769, AL020989, AL034451, AC004129, AL109956, AC003001, AC006143, Z99571, Z83841, AL033397, AL109733, AL031779, AC006924, Z96811, AL049859, Z78022, and Z83822.
HMSJU80	8191	775416	1 - 546	15 - 560	T87122, T77586, and W03662.
HMSJQ40	8192	954003	1 - 380	15 - 394	N21479, AA133872, AI167354, AA129368, N74537, W56424, H99653, AA297666, AW341978, AA365042, AI473995, AL038842, AA503298, AI073373, N57365, AI561060, AA833896, AA833875, AA832444, AA765925, AA482953, AW020150, AA136122, AW070892, AA503119, AC008041, Z82203, AC007285, AC007542, AC005529, AL049557, AF207550, AC005081, AP000497, AC006312, AC005015, AC004859, AC006441, AL049758, AC005971, AL049709, AF196779, AL080243, AL021707, AC005037, Z84484, AC002477, AL031005, AC005914, AC004929, Z98304, AP000692, AL121603, AC003689, AC002312, U47924, AL021394, AL049843, AC004938, AF109907, AC005519, AL049832, AC003982, AC005527, AC006210, AF111168, AC006101, AC006120, AC006013, Z98946, AP000510, AF111169, Z84469,

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HMSJO72	8193	465884	1 - 256	15 - 270	R10535, and AP000555.
HMSJO43	8194	715274	1 - 50	15 - 64	
HMSJM02	8195	920070	1 - 1079	15 - 1093	AA191493, AA190859, Z25142, AA063296, and AA190753.
HMSJL53	8196	921263	1 - 420	15 - 434	AC003046, and AC005859.
HMSJJ22	8197	495774	1 - 569	15 - 583	U46128, A30438, I25947, L40401, and AR040601.
HMSJI78	8198	772846	1 - 461	15 - 475	AA190926, and AA731652.
HMSJD56	8199	868168	1 - 454	15 - 468	AA286875.
HMSIZ49	8200	973806	1 - 633	15 - 647	AW360811, AW177440, T03269, AW377672, AW375406, AW179328, AW366296, AW375405, AW378534, AW360817, AW360844, AW179332, AW179023, AW178905, AW178893, AW177731, AW352171, AW378532, AW377671, AW177501, AW177511, AW352174, AW179024, D58283, C14389, AW179020, D59859, D80022, C14331, D80166, D80195, AW352158, D80193, D59927, D59467, D51423, D59619, AW178775, D80210, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80043, D59787, D80227, D59502, AW377676, D81030, AW352170, AW178907, AW178908, AW360841, AW179019, D80212, D80196, D80188, D80219, AW176467, AW177505, C15076, D80269, D80045, D80038, D57483, AW177722, D80366, AW369651, AA305409, C14429, D81026, D50979, D50995, D59889, AW178754, D80024, AW178909, AW177456, D51250, AW179004, AW179329, AW378528,

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HMSIW04	8201	465835	1 - 815	15 - 829	N62914.
HMSIU74	8202	765600	1 - 365	15 - 379	H86211, and H63108.
HMSIT32	8203	699241	1 - 506	15 - 520	N50056, and AA578534.
HMSIT28	8204	686663	1 - 326	15 - 340	T15530, and H14968.
HMSIP20	8205	669671	1 - 339	15 - 353	T63454.
HMSIP02	8206	920079	1 - 390	15 - 404	AI086180.
HMSIK04	8207	615218	1 - 339	15 - 353	AA252623, AA282769, AW169739, AI167434, AI038266, AI240380, AI608954, and AA602286.
HMSIB06	8208	935151	1 - 1310	15 - 1324	AA704174.
HMSHV11	8209	967007	1 - 324	15 - 338	AA506376, and T56128.
HMSHU68	8210	753038	1 - 499	15 - 513	N98756, AW015695, AA600174, AA599043, AI816903, AI963142, AA744590, AI142122, AI077980, AA989061, C01589, AC006946, and AC005300.
HMSHU37	8211	495778	1 - 265	15 - 279	AI031670, and AC004650.
HMSHT11	8212	967068	1 - 503	15 - 517	T02871.
HMSHO45	8213	717808	1 - 357	15 - 371	R84684.
HMSHJ09	8214	709471	1 - 723	15 - 737	AA035379, AA035378, AI494330, H86195, AA056312, and R84260.
HMSHI61	8215	741834	1 - 1336	15 - 1350	H39805, N78668, H85323, W15175, AA256969, AA257077, H39806, AA059102, AA248862, AI608660, and AB007883.
HMSHG08	8216	959461	1 - 383	15 - 397	H45658, AC010205, and AC005409.

HMSHG06	8217	935496	1 - 412	15 - 426	AI873505, and AA868211.
HMSHE81	8218	784966	1 - 418	15 - 432	AL047194, R30808, AA127970, R21308, W49550, H11154, AW059635, AA133838, T96201, AI346495, AA046957, R52207, AA338045, W20506, T79356, AA344786, AA063363, W37522, R60470, R35905, T31941, AA203250, W68832, AA776637, AA340352, T34581, T35500, AA075388, T34053, AA337298, T99002, R11376, T31786, Z45899, T35531, H93460, F12241, T72052, T65262, U46386, T35164, AA374730, AA374708, AA228152, N99666, R60632, N44853, W05464, W38978, AA171804, AW372268, T18906, AA094785, AA707543, R32548, R82030, AW372267, T40014, W16937, AW363301, AW392423, AW161265, R31331, AA093953, AA313024, AW352224, AF062483, AF034546, Z98742, AF062482, and AL078596.
HMSHE17	8219	662265	1 - 855	15 - 869	T79224, T79733, AI878808, AI878839, AW160501, W27440, D59610, AW361175, T03269, D80241, D80193, D59502, D59467, D58283, D80166, D80195, D59927, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80212, D80196, D80188, D80022, D80219, D59275, D81030, D57483, D80269, D80038, C14429, D59889, D59787, AW178893, D80366, D50979, D50995, D80164, D80024, D80378, D80045, D51250, C14331, C15076, C14389, C14014, AW378532, C75259, D51060, AW177440, AA305409, AW179328, AW178775, AI905856, AI910186, AW352158, D81026, D80134, AW177501, AW178762, AW177511, F13647, D51097, D51022, D58253, D80949, D80522, AW360811, AW176467, C14227, AW352117, AA285331, AA305578, D51079, D81111, D59695, AW375405, AW378540, AW179023, AW377671, AW179332, AW360834, D80251, D52291, AW366296, AW360844, AW179220, AW360817, D80248, AW375406, AW378534, AW377672, AW178905, AA514188, AW177731, AW179024, AW179019, AW352171, AW377676, D80064, AW352170, AW179329, AW178907, AW179020, AA514186, D80133, AW177733, AW178906, AW179018, AW177505, AW360841, AW178909, AW177456, AW178980, AW378528, AW178908, AW178754, C05695, AW367967, D80268, AW179004, D80302, AW178914, AW378525, AW352174, AW178774, AW178911, AW378543, AW352163, AW177728, AI557751, D80014, AW352120, D80132, D80439, D80247, T03116, AW178781, T48593, AW178983, T11417, AW177723, AW367950, AW378539, D51103, D80157, D51759, AI557774, AW178986, D80258, C06015, D45260, AW177734, AW378533, D80314, AA033512, C03092, AA809122, AW378542, H67854, H67866, AW360855, AI525917, AI535850, Z17814, AI525923, D58246, D59317, C14975, AA514184, D59503, C14973, D51221, D59474, AI525920, AI535686, AI525913, D58101, C14046, AI525227, AI535959, C05763, AB020721, X67155, Y17188, A78862, A67220, D89785, A84916, A62300, A62298, AJ132110, D34614, D26022, A25909, D88547, X82626, AR025207, AR018138, AB012117, X68127, AF058696, Y12724, AR008278, A85396, AR066482, A44171, A85477, I19525, A86792, AB028859, X93549, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, Y09669, AF135125, A30438, AR066488, A82595, AR016514, AR060385, AR060138, A45456, AR066487, A26615, AR052274, A43192, A43190, AR038669, AB002449, D88507, AR066490, A70867, D50010, Y17187, I18367, AB033111, AR008408, A63261,

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HMSHD80	8220	882700	1 - 1135	15 - 1149		AL079812, AI679782, AW069510, AA631363, AA806796, AI802087, AA680243, AI732120, AI791227, AA846568, AI298710, AW079792, AA595782, AI580652, AW103758, AI589230, AA553666, AA453558, AI358343, AW276586, AW022379, AI859251, AI561060, AI499938, AA587604, AI144101, AI198376, AI754170, AI345518, AI370074, AI610159, AA488395, AW265009, AI370094, AI313166, AI439210, AW406162, AW069412, AI246409, AW265385, AW268973, AI567076, AW070892, AI718446, AI345654, AI821271, AA372478, AI754955, AI653636, AI358571, AA584752, AA630352, AW276817, AA302963, AI564454, AI471487, AI334464, AI344812, AI866964, R97780, AI628922, AI956131, AI798265, AA226715, AA542991, AA584145, AA702729, AA523843, AW075511, AA309841, AW020992, AA630925, AA491284, AA984708, AI345418, H71429, F36306, AA679672, AI421841, AI283911, AA563733, AA704393, AI287485, F29989, AI536834, AA133333, AI635274, AW168342, AW088202, AW338500, AI679045, AW327868, AA938105, AW406659, AI986165, AI367975, AA846876, AA059235, AA469451, AI951889, AA630362, AA525190, AL134972, AW407578, AW089322, AA508359, AA133406, AI635609, AA688130, AA654771, AI654247, AI866856, AA214342, AA864426, AL043144, AW407632, AI888518, AI216799, AI951928, AI828463, T08638, AL044858, AW304805, AA653618, AA827981, AI307608, AI301273, AI635279, AA601253, AA143516, AA101689, AL134439, T57119, T09071, AA483223, AA679936, T41242, AI732186, AL119691, AA579075, AA709005, AI246419, AA346458, AW302013, AW079135, AA496508, AA443390, N26226, AL037554, AL046898, AA381163, AI572924, AI334443, AA503475, AA478355, AI475569, AA156538, AI049634, W00807, AA598586, AI471691, AA503283, AA614070, T06783, AA837746, AA650376, AI087133, AI289447, AA531372, AA493708, AA148197, AI982525, AA533725, AA722048, AA457592, AI471464, AA523838, AA502963, AA598425, AI284640, AA569214, AC005288, AL078463, AC005754, AC006312, Z99716, AL035681, AC005822, AF088219, AC004675, AC002091, AC005736, AC006064, AC002395, AC005399, AL049795, AC005231, AC007676, AC005209, AL121653, AL031311, AC004000, AL133448, AL022476, AC002350, U52112, AL080243, AC005924, AB000882, Z96074, AC006277, AC005527, L78810, AC004139, AL031680, AC006251, AC006120, AC004876, AC000353, AC002301, AC006241, AC002543, AL034548, AC005562, AL096791, AC004671, AC002040, AC005011, AC005520, AC005828, AC005215, U62317, AL035659, AL133371, AL021393, AC005694, AC005529, AL008718, AP000131, AP000209, AC000052, AL133246, AC007191, AP000248, Z95114, AP000359, AC005291, AC009516, Z99129, AC002073, AC004858, AC006057, AC005900, AC008079, AC005031, AP000553, AP000506, AC004966, AC004236, AC018633, AL031255, AC010205, AF109907, AC002115, AL023803, AC006948, AF111168, AL109798, AC008040, AC007055, AL034420, AC007226, AC007919,

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HMSHB81	8221	777946	1 - 682	15 - 696	W07507, N81144, C01673, and AC007298.
HMSGX86	8222	793163	1 - 310	15 - 324	
HMSGF56	8223	733562	1 - 365	15 - 379	T87391, and R94130.
HMSGF54	8224	730823	1 - 555	15 - 569	AA075407, and AA829024.
HMSGF51	8225	761922	1 - 573	15 - 587	AI628560, AI628570, W52594, H15987, AA314350, AA081556, AA449562, W48833, AA340229, W19356, H16913, AA309056, R18554, AI460069, T80286, AA384328, AA318911, R12855, and AC006033.
HMSGD24	8226	677337	1 - 416	15 - 430	N62538, and N62572.
HMSGC85	8227	783608	1 - 825	15 - 839	AA585378, AI526112, AA585325, AA585278, AA585389, AA585430, AA585329, AA283312, AA585439, AA585116, AA585098, AA585356, AI525306, AA585453, AA585420, AA585101, AA585327, AW366296, T26367, T48593, AI541402, D78224, D57491, T18597, C15406, R29657, AA585198, Z32887, D59751, C15069, Z32822, D53161, AA585155, AI526205, D54850, R45895, D61185, AA585351, AI526169, Z33559, D51433, AI557718, AI525316, AI541356, AI557262, AI541365, AI557864, D59458, AI526078, AI526146, Z36724, AI535660, D51413, AI525500, D50992, AI526016, AI526158, AI526140, AI546855, AI557740, AI535639, Z28355, AA486970, AI557809, AI557731, D54897, AI541535, AI546831, AI421391, AI541013, AI541492, AI541205, AI525556, AI557533, AI525168, AI557727, AI540903, AI546971, AI526187, AI536138,

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HMSFY63	8228	745230	1 - 448	15 - 462	W96346.
HMSFX73	8229	888326	1 - 170	15 - 184	
HMSFS08	8230	959773	1 - 408	15 - 422	AI016389.
HMSFR23	8231	919890	1 - 1974	15 - 1988	AA508809, AL038606, AA574442, AA879053, AI678785, AI244127, AI805607, H05940, AA904275, AW069227, AA610509, AA191418, AW271917, AW341978, AI537020, AI885572, AW299781, AI753113, AA635368, AI623764, AL048607, AA180775, AW157492, H80203, AI634187, AI625604, AI040051, AI270524, AI251576, AW089950, AW338370, AA225406, AW270256, AW068316, AI051037, AL040054, AI783911, AI559645, AI583466, AA720732, AI205181, AI590458, AW274191, AI306232, AI768952, AI270476, AI061313, AA601986, AA533176, AA749235, AA525253, AI457313, AI869786, AA634786, AI569510, AI635028, AW272294, AI634691, AA777986, AW419389, AA582554, AI431513, AI590499, AA657835, AW188662, AW157005, H53168, AC005694, AL034420, Z85987, AL031005, AC005527, AC005682, AC005940, AL050318, AL096791, AC006501, AC005736, Y18000, AC002310, AP000503, AC006449, AC002558, AC005972, AC002059, AC003029, AC008984, Z97054, AC009516, AC006468, AC005778, AL035683, AC007684, AC005500, AC002314, AL049694, AP000088, AL031311, AC004019, AC006285, AP000512, AL133448, AC002316, AL022316, AL121653, AL049553, AP000692, AL050332, AC005529, AP000359, AP000152, AC004253, AC007731, U47924, AC005520, AC005399, AL021397, AC005755, AC005041, AC004531, AL035413, AC003982, AC002073, AC005180, AC007919, AP000248, AC004112, AC000025, AP000133, AP000211, AL035079, AC007999, AC005231, AC005874, AF134471, AC000052, AC002470, U80017, AD000092, AC005212, AC007055, AC007993, AL096701, AC009247, Z98036, AL133355, AC005899, AC008012, AF207550, AC006130, AC006017, AC005722, AL050312, AL034555, AF200465, AL031685, AC006211, AC005482, AC002115, AP000555, AF134726, AC007387, AB023049, AC007308, AC004477, AC006480, AC004985, AC004520, AC003041, AL080243, AC002312, AC005102, AC005049, AC007371, AC004913, AP000553, Z68870, AC005255, AC002350, AC002301, AC002543, AP000502, AC004865, AC004466, AC007845, AL117258, AC005225, AL022721, AC006512, AC004526, Z86090, AC004832,

					AC003684, AL049569, AF088219, AC005632, AC005620, AL031587, AL109759, AL022313, Z93244, AL049757, AC005484, AL020997, AC007666, AC000353, AL078581, AL035659, AC007263, AC004991, AC002477, AC004222, AC016025, Z94056, AB003151, AP000047, Z85986, Z68276, AC007688, AC018633, AC005971, AL021808, AC007216, AC004106, AC004750, AC007386, AL049636, AC006057, AC005568, Z98200, AC005295, AL008718, AF111168, AC004263, AL031283, AC004257, AC004890, AL035587, AF196969, AP001053, AC002352, AC004883, AF196779, AP000689, AC004596, AL049709, AC004382, Z84487, AC005993, AP000348, AC006064, AC004815, AC006132, AL031848, Z83822, AC004552, AC005920, AC004000, AC006430, AC007225, U91326, AC005747, AC007136, AC005670, AL021391, AC005703, U41384, AC005519, AC004929, AF111167, AC005280, AL121603, Z98742, Z95114, AL079342, AF045555, AC004804, AF187320, AF001549, AL035072, AC004817, AC005031, D84394, AC005288, AP000509, AL009181, AC006013, AL022165, AC005921, AL121655, AC002425, AC004812, AL008582, AP000245, AF205588, AC005300, AC002302, AC007227, AC006084, AL035458, AC005037, AL117338, L78810, AL109798, AL049759, AC006312, AC006023, AP000952, AC005969, Z82244, AP000065, Z93241, AC004598, AC004032, AC005480, and AC007774.
HMSFN08	8232	959774	1 - 294	15 - 308	AI611315.
HMSFN68	8233	753635	1 - 137	15 - 151	
HMSFN13	8234	384695	1 - 209	15 - 223	
HMSFN08	8235	960147	1 - 530	15 - 544	
HMSFN34	8236	706366	1 - 352	15 - 366	T87975, T78968, H75882, AA186627, AA157874, AA155657, and AC005632.
HMSFN64	8237	842040	1 - 186	15 - 200	H60137.
HMSFN67	8238	751865	1 - 221	15 - 235	AA452398.
HMSFN15	8239	660654	1 - 262	15 - 276	
HMSFN70	8240	909997	1 - 417	15 - 431	H48662.
					AA937295, AA749017, AI961060, AW296060, AI560436, AW137661, AI952999, AA837074, H14097, AA058658, AA058632, D17577, AB023656, AF131865, and AF090190.
HMSDK10	8241	968435	1 - 152	15 - 166	N56866.
HMSDI34	8242	559991	1 - 315	15 - 329	
HMSDG12	8243	574950	1 - 339	15 - 353	
					H51539, AI818853, AW008155, AI915439, AA113960, N25429, AI539019, AI090837, AI269976, AW183489, AA705828, AW028222, AI085311, AW057893, AW025905, AI817383, AA627364, AI807821, AI807831, AL134858, AA570019, and AC005786.
HMSDG04	8244	927804	1 - 352	15 - 366	AA526542, H38817, R54896, H25626, AI174535, AA516247, R71981, AA641112, AA745524, AA744001, AA524616, AA506744, AA744272, AA744455, AA745588, AI624990, AA743966, T34066, AA729470, AA779667, F07193, AI683294, H97358, AA364869, AA804625, AA830910, AW246879, R91911, AW238325, AA700569, AW081359, AI863246, AW102955, AA035676, AA251117, AW062759, AI241637, R13151, AI123488, AI636306, AI024782, AI188049,

					AA683091, AA350406, AI357551, AA215585, AA077619, AA158549, T07346, AI678867, AA047849, T10218, N47855, AW327852, AA158550, AW188487, N52323, N33851, AW070476, AA364488, F13749, AL135643, AA329321, AI289050, AI751162, AW162288, AI284092, AI611440, AI612141, AA483141, AI696793, AA516058, AA654627, T11542, AA730336, AA779018, AA515440, AA572975, AA321595, AI565582, AA457482, AA650244, AW439839, AA975915, AA456422, AL031650, AL049713, U73331, AP000345, AL009179, AP000344, AL133353, AC006958, AP000245, AL022578, Z93020, AC004653, AL031651, AC004548, AP001054, AC006121, AC006948, AC005969, AC003080, D84394, AC004675, AF088219, AC003692, AC005582, AC006539, AL021939, AC004453, AC004234, AC004765, AC005703, AL031346, Z83839, Z98949, AP000319, AC002476, AL135744, L35930, AL035667, AC003043, AC005358, U92894, AC004258, AC006047, AC005330, AC004851, AP000509, Z94056, AL023803, L44140, AC007292, AF031078, AF030876, AL049871, AL020993, AC004386, AL096701, AC004656, AL031594, AC000029, AP000556, AL049744, AC004882, AC005529, AC006000, AC006511, AP000555, AL049849, AL049641, AL022326, AC006019, Z99570, AL021578, AP000120, AP000167, AP000052, AC007388, AC005300, U07563, AC007151, AL049793, AC003072, AP000068, AC002483, AF001548, AC007736, AC009178, AC007917, U47924, Z83843, AC004913, AC005031, AL008726, AF037338, U80017, Z82245, AB014077, AC005525, AC005788, AC004209, AC006139, Z73420, AC006130, AC005365, AP000514, AL031676, AC005899, AC003003, AL035419, D00591, AC002559, AL050318, AL034551, Z83840, AC003957, Z82170, AC005550, AC005399, AC007387, AP000301, AF039906, Z69710, U73638, AC005253, AC004149, AP000114, AP000045, AL031775, AC003029, Z98884, AC005736, AL096791, AC002463, AC005944, AC006930, AC005578, AC003065, AC004159, AC005033, AC004562, AL035460, AB003151, AP000688, AC006312, AC006449, AC006530, AF123462, AL021394, AC005542, AL133243, AL035423, AC004887, and AL023694.
HMSDB08	8245	960260	1 - 611	15 - 625	AI694133, and AC005661.
HMSDA81	8246	778469	1 - 362	15 - 376	AA846610, W32521, and AI089044.
HMSCY01	8247	921768	1 - 387	15 - 401	R86918.
HMSCW45	8248	723483	1 - 274	15 - 288	AI090721, R98008, AA992295, and AI024933.
HMSCT69	8249	855855	1 - 462	15 - 476	Z54334.
HMSCP73	8250	764703	1 - 354	15 - 368	AA213710.
HMSCO63	8251	855863	1 - 431	15 - 445	H80947, H54099, and AA513418.
HMSCD07	8252	954243	1 - 314	15 - 328	AA214194, and AL031709.
HMSBZ67	8253	973737	1 - 473	15 - 487	AC003091.
HMSBZ13	8254	855866	1 - 436	15 - 450	T93073, and AI826311.
HMSBY67	8255	752145	1 - 464	15 - 478	AA258700.
HMSBW54	8256	880721	1 - 571	15 - 585	AA280755.

HMSBU24	8257	678709	1 - 757	15 - 771	T47576, T47577, and AF146689.
HMSBO95	8258	796724	1 - 363	15 - 377	AA010247.
HMSBM92	8259	792970	1 - 127	15 - 141	.
HMSBI82	8260	780229	1 - 176	15 - 190	
HMSBI56	8261	733772	1 - 71	15 - 85	AL122007.
HMSBH85	8262	784576	1 - 448	15 - 462	H69907.
HMSBH08	8263	958802	1 - 1311	15 - 1325	AW378532, AW089016, AA595661, AI123488, AL044701, AA493808, AI828721, AA507623, AA935827, R72363, AI355246, AW152439, AA584360, AW057760, AA654705, AA676592, AI453476, AI791659, AI733523, H71678, AI567676, AA493245, AI521525, AA425283, AA135761, AA640305, AA526643, AA829565, AI984168, N32081, AI434686, N29829, AI609984, R22196, AI350189, W04238, AA720582, AI159799, AI345566, AI697235, AW020150, AI860423, AI915081, AI242614, N27362, AI128511, AI434103, AA526542, AI697239, AI610012, AI583532, AA487209, AI697242, AI609974, AA631915, AI342863, AI086603, AA482682, AA577706, N23099, AA635135, N94115, AA640104, AI798493, N32080, AA747757, AA584183, AI280535, AA303002, AA807704, AI537368, AA015948, AI791426, AI732473, AA525112, AI521042, N32094, AA297776, AW272606, AI682899, AI754064, AI679730, AW072963, AA832145, AA054055, AA613761, AA719564, AW380335, AA564591, D34614, AC007546, AP000688, AL008710, AL035413, AL109952, AL049631, AC007388, AC003108, AC000353, AC005305, AC005921, AC002430, AC007565, AC006011, AL049636, AC007384, AC003002, AC005516, Z84474, AL133246, AL031229, AC006121, AC004008, AC003962, Z93024, AC005003, AC005088, AC005619, AF109907, AL022326, AL022237, AL049872, AC007283, AC005839, Z93241, AC002544, AL031666, AC007421, AL031602, Z95116, Z95114, AF141309, AC004663, AC002310, AC005399, U78027, AL022322, AC009247, AL049743, AC007227, AC004662, AP001054, AC007207, AL035422, AF107045, D28126, AL022398, AL035462, AL049869, AL034451, AL031297, AC005593, AC007151, AC002128, AL031681, AC005328, AC004408, AC004150, AC004699, AL031311, Z86090, AF024533, Z84469, AC005231, AC003043, AL022721, AL133163, AL133241, AP000049, AC003667, AL035684, AC000025, AC005015, AC004477, AC004099, AF060568, AC002316, I34294, Z92546, AP000311, AC005049, AC006505, AL121578, AC003112, AC007559, AC005527, AC001234, Z97054, AP000116, AC002549, AC004755, AC005899, AP000555, AC004009, AF196972, AL031782, AC006013, M63796, AC005082, Z93023, AC004887, AC004920, AC005913, Z73359, AL096701, U93305, AP000497, AC004491, AL034379, AF196779, AF207550, AC005255, AC002538, AL049757, AC004448, AC004973, AC007899, AC007536, AP000359, AP000689, AC006111, AP000353, AC006017, Z83844, AC002407, AC002039, AC006449, AC004814, AC005377, AC004079, AL117258, U07561, Z97353, AF184110, AC005971, AC007386, AL109627, AL096767, AC005754, AC005624, AC004893, AC005529, AP000233, AF134726, AC007057, AP000289, AP000147, AC006101, AC006236, AC005369, AP000350, AP000042,

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HMSBH07	8264	954457	1 - 448	15 - 462		AI225156, Z80896, and U51560.
HMSBF92	8265	582654	1 - 905	15 - 919		Z99774, AC007073, AP001051, AC007016, AP000014, AL009179, AL096772, AC002375, AC005347, AC006060, AC005279, AC008123, AL008710, AP000155, AL109620, AC005736, AC007240, Z82250, AC005905, and AC006167.
HMSBC31	8266	960021	1 - 552	15 - 566		R08621, R09445, T83341, R12764, AI868587, AW168691, R52828, R66453, AI572495, R26443, AI479182, AI745312, AW272841, AI376897, AI559339, AI818827, AI128920, AI818867, AA056017, AW243942, H98699, AI801490, AA599935, AI241017, AW023649, AI879926, AW264809, AI432465, AI022932, AI042229, AW294405, AI638167, AA563714, W46846, AI619816, AI453457, AI215121, AI373123, N63964, AI245268, AA972323, AA709398, AI122927, AI336525, AI273714, AA599488, AI862846, AI128566, AI950246, AW236025, D58140, AI951485, AI742100, AI913610, AI873481, AI479476, H47624, AI365294, AI610258, AI868878, AW192014, AI094370, AW295145, AA778934, AW303589, AI247403, AA947308, T90383, AI457642, R62344, AI346810, AA864840, N46424, AI655638, AW082317, AW305262, AW207683, AW084022, AI274053, AA490456, AI973108, W46841, Z40817, N20960, R91085, AW129403, H58229, N52900, AA034024, AI916541, C21345, AW152560, AA135710, AI913607, AA885112, C16453, R56284, and AI342372.
HMSBA43	8267	715699	1 - 364	15 - 378		H63639, and AA805570.
HMSAV84	8268	781872	1 - 405	15 - 419		H62879.
HMSAV65	8269	747792	1 - 393	15 - 407		AA524821, AA180370, AA083046, AA224525, AA181758, AA837677, AA526787, AA935988, AA493695, F36273, AI872020, AA757797, AA533303, AA580808, AA846953, AI584186, AL042213, AA653375, AI859742, AA477122, AI933534, AA551503, AI583283, AI243584, AA482806, AA632600, AA621596, AA782304, AI732547, AW075511, AW193265, F18619, AW168618, AA584167, C17734, AA992337, AI270117, AW438643, AI345654, AA834792, AA583898, AA847499, AA501821, AI908381, AA581903, AI350211, AI679782, AA483223, AA490183, AA715991, AA581076, AI049634, AA720702, AA935100, D58349, AL022329, AC009516, AC005089, AC006211, AC005412, AP000056, AP000171, AL132712, AL080243, AC005484, AP000330, AP000043, AC008115, AC004686, Z93930, AC005081, AC004491,

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HMSAT76	8270	842065	1 - 623	15 - 637	AA906051, AI911368, AI809060, R37329, and AW292043.
HMSAQ95	8271	796728	1 - 381	15 - 395	AA054495, and AL078593.
HMSAQ58	8272	738495	1 - 346	15 - 360	N36504, and W03426.
HMSAP36	8273	518062	1 - 211	15 - 225	
HMSAO42	8274	714316	1 - 174	15 - 188	AA678143.
HMSAH80	8275	781640	1 - 365	15 - 379	R09134, and AC004897.
HMQDV06	8276	936015	1 - 450	15 - 464	AI492018, AW444713, AI760623, AI347343, and AI917642.
HMQDQ42	8277	457221	1 - 344	15 - 358	T87271, AI356228, and AI683496.
HMQDL40	8278	711421	1 - 242	15 - 256	AI948473, W87704, AI610102, and AI831741.
HMQCZ36	8279	708066	1 - 372	15 - 386	R16464, T80874, and AC006559.

HMQCZ18	8280	574068	1 - 459	15 - 473	R72937, AI003337, AP001056, and AP001055.
HMQCX42	8281	712966	1 - 431	15 - 445	R97476, T83110, T82131, and AB018341.
HMQCV29	8282	974683	1 - 486	15 - 500	AW089880, R84393, AA976621, W73367, AI478491, AI081094, H43299, AW294792, AA378963, AW292636, AA378964, W69666, H66133, AI671768, AA701250, AA702739, AI985183, AW207720, AW292633, AW271763, AA256004, T47922, W45654, AA455850, AA704633, and AC020663.
HMQCN17	8283	385544	1 - 384	15 - 398	AA190721, AA974701, and AA149317.
HMQCM46	8284	719201	1 - 123	15 - 137	AI219699.
HMQCM41	8285	711586	1 - 135	15 - 149	
HMQCM05	8286	932363	1 - 180	15 - 194	
HMQCH69	8287	754188	1 - 419	15 - 433	
HMQCH54	8288	728851	1 - 265	15 - 279	N47102, AW135582, AI700192, AI871529, and AW081758.
HMQCB03	8289	963370	1 - 305	15 - 319	AA026069, and AA026070.
					AW072495, AI560951, AI743233, AI583496, AI583807, AI310201, AI380351, AA928555, AI500421, C17500, AI339070, AI884995, AI197975, AI344492, AI884792, AA877126, AA233986, AI245590, AA442443, W57931, AI079317, AA143237, AA721704, AA304268, AI027135, AI252344, AI335498, AI312160, AI334907, AI307561, AI252601, AI345291, AI312354, AI344924, AI312953, AW074978, AI590450, AW075157, AW301942, AI312975, AW301956, AI583821, AI348908, AW302779, AI370101, F26488, AI340917, AI611858, AI318626, AI802845, AI053448, AI376475, AI344868, AI308315, AA570158, AI311886, AW268184, AI541347, AI612046, AI307429, AI250091, AI370083, AI308517, AI308028, AI309430, AI611379, AI307014, AW301798, AI250220, AI417297, AA862400, AA143295, AI749104, AI879450, AI362876, AA933040, AI609988, AI382677, AI541281, AA282746, H46464, AA340388, AA327360, F36474, and AL133448.
HMQBN40	8290	779856	1 - 459	15 - 473	AA258747, AI347356, AW005871, AA639645, AI391658, AI379681, AI928095, AI819881, AA136079, AA557386, and Z79996.
HMPTA56	8291	921233	1 - 356	15 - 370	AA359995, AA993757, AC006026, and Z61386.
HMPTA28	8292	685099	1 - 290	15 - 304	AC006287.
HMPSC38	8293	709222	1 - 331	15 - 345	R08653.
HMPBB84	8294	781863	1 - 731	15 - 745	AA362237, and AA362238.
HMOAD90	8295	600400	1 - 339	15 - 353	
HMOAD60	8296	855919	1 - 228	15 - 242	
HMMCL96	8297	796276	1 - 468	15 - 482	AW023589, and R00787.
HMMCI01	8298	913715	1 - 329	15 - 343	AA835501.
HMMCH69	8299	754902	1 - 313	15 - 327	T52346.
HMMCH09	8300	625366	1 - 586	15 - 600	W01465, and AA259146.
HMMCD83	8301	875272	1 - 438	15 - 452	AW168912, T57077, T57149, AA570710, W04964, and AI743980.

HMMCD23	8302	675720	1 - 499	15 - 513	R27937, and Z97054.
HMMCA11	8303	966677	1 - 448	15 - 462	AA677566.
HMMCA08	8304	958980	1 - 424	15 - 438	AA610438, AI571512, AW074207, AA652057, AA649642, N23649, AA125788, AA548702, AA733208, AA555260, T40617, AA095511, AW088058, AI554289, AA557879, N23874, AI246340, AI469166, AW069427, N73083, AA317656, AI038990, F03525, AW406447, N26061, AI281903, AA687182, AA576336, AA812139, AI914151, AI801482, AA338522, AA301813, AA181494, H37777, T07324, AA552856, W25284, AA653327, AA594725, AW339568, AI754658, AL119123, AI744827, AA832181, AA074458, AL134703, F34999, N70337, H63991, AA526193, AA629415, AW408063, AA629407, N53152, T06652, AA369477, AA317170, AL138242, AI708005, AA613345, AF087510, AF006501, AL031587, AL031133, AC005694, Y18000, AC005529, AL132712, AF007544, AL121577, U86136, AL109611, AC005375, AC016025, AC016026, AC006080, U55182, AL035685, AC005210, AL031228, AC006057, AC006505, AC002316, AC005994, AL049690, AC007227, AC005324, AC007450, AB016897, AL022238, Z82976, AL080242, AL023575, AL008583, AC004820, AC007226, AC004526, AF000073, AC005569, AC005364, AC004232, AC020663, AC002115, AC004408, U51559, U63313, AP000432, AL121782, Z95126, AL136504, AC006536, AC009498, U41384, AC004944, AL121580, AC005030, AL049839, AC005175, AL050343, AF003530, AP000153, AP000012, AL031577, AC008071, AL049636, AC004492, Z15025, Y14768, AP000505, AL096712, AF129756, AC005940, Z98946, AC005808, U95740, AC005520, AP000350, AC007461, AL049779, AL049776, AC003983, AC003102, AC006323, AC005726, Z68344, AC005785, AF091512, AC003103, AP000692, AL022578, AC002080, AC005695, AC003684, Z99716, AC005500, AC005872, AL096734, AF154840, AL096765, Z84723, Z46773, AC005346, Z68756, AC005262, AL049741, AC004752, U07563, AL022320, AL096776, AC005998, AL022163, AC006486, AC003007, L78833, AC002310, AL109984, AC006543, and AL078474.
HMMBZ18	8305	666192	1 - 746	15 - 760	AA701580, AA701569, AA828646, AA776372, T87907, AA811226, R07726, R93731, AA761770, AI240497, T88001, R06363, R06362, R08543, and AA810943.
HMMBZ05	8306	566870	1 - 654	15 - 668	AA441997, AI885572, AW080811, AW166611, AI754658, AC005803, AC007436, AC007221, AC004905, AC004815, AC005225, AC006512, AC004616, AC004963, AF111169, AC002425, X75335, X54175, AC006948, X54181, AF196779, AC005784, X54178, AC006511, AC006023, AC005237, AC005067, M87919, AF207550, AL035072, AC004417, AC004858, AF109907, AC005988, Z97630, AC003688, AC007360, AC007546, AC005971, AC007899, AC002551, AC005521, AC007237, AC007731, AC007263, AC005500, AJ003147, Z68162, AC006160, AC007786, AC006255, AC002553, AF015148, AC005755, AC005288, AC005284, AL121653, AC006011, AC005531, AC009516, AL132712, AC006480, AL049780, AL034548, AL049709, AL022316, AL136504, AC002558, AL009181, AL049839, AC002544, AC005399, AL134448, AL022302, AF117829, AC004253, AC006501, AC006312, AL133353, AL031311, AL022329, AC005759, AC004643, AC004019, AC003664, Z85986, AC005786, AC006079, AC000052,

					AC004263, AC004033, U52111, AL109627, AC006211, AC004034, AL049759, AL080243, and AC005306.
HMMBX01	8307	916067	1 - 406	15 - 420	AI220476, AI376552, AI935005, AW090719, and AC006504.
HMMBV08	8308	958987	1 - 450	15 - 464	AI939575, and AI362923.
HMMBU13	8309	597147	1 - 444	15 - 458	H65100, AC004686, AF201333, and AF081568.
HMMBT64	8310	746399	1 - 408	15 - 422	T96528, and AA543014.
HMMBT30	8311	841959	1 - 607	15 - 621	AA280370, R58990, H71497, AC005050, and AL031985.
HMMBT03	8312	855930	1 - 631	15 - 645	AI754567, AI583466, AI061313, AL079734, AI436433, AI962030, AI366993, F23264, AW237905, AA904211, AI755214, AI923052, T74524, AI754105, AI754653, AA420546, AA864603, AI254959, AI612142, AI281730, AA515728, AW103406, AI354423, AI306232, AA829036, AA535216, AI583252, AI610941, AW275432, AA469327, AW274191, AA225406, AI926102, AI923451, AI635028, AI801505, AA456924, AI469599, AW243793, AA595661, AA714011, AW151541, AI521525, AI279417, AW271904, AW020088, AI798449, AI251576, AW272294, H07953, AA825827, AW023111, AL041375, AI984168, AA483606, T49633, AI291439, AI290405, AL138182, AI537995, AI536858, AI130709, AI249688, T05118, AA570740, AW069227, AI476049, AA524616, AA683069, AI917132, AI674840, AA651639, AI380617, AA608520, AI491765, AW272640, AI814682, AA284247, AI923458, AW328000, AI590485, AW089016, AA937809, N77915, AI753113, H05940, AC005006, Z98036, AC005004, AC004757, AF196779, AC004386, Y14768, U85195, AC005962, AE000658, AC007298, AP000505, AF165926, AL021154, AC006333, AC006026, AC004466, AP000114, AP000046, AC006312, AL049843, AC007371, AC004106, Z85986, AL023553, AC004991, AC005261, AC002425, AL031659, AC006942, AC002301, AC002418, Z95331, AC003669, AC004922, AL031680, AC009247, AC005821, AC002316, AL109839, AL035407, AL034548, AL049839, AC005736, AC005039, AL031737, AC005899, AL035587, U96629, AF130343, AC007707, AL034343, AC005378, AC004148, AC000003, AC007731, AC005632, AC005500, AC005280, AC007227, Z84487, AC005274, AL049643, AC000353, AL031283, AP000694, AC007993, AL050318, AC005837, Z98751, AF152363, AC004216, Z98256, AC007686, AL022098, AF031078, AC005220, AL024498, AF030876, AL023879, AL121655, AC004972, AL031848, AC005332, AC002300, AC004000, AL049872, AC007546, AC004033, AP000510, AL049780, Z93017, AC004821, AC004988, AC004458, AC005544, AC006552, AC009516, AC005952, AC004819, AL079340, AL109758, AC003080, AC005598, AC000118, AL117329, AL049856, AC006211, AL022315, AF134726, AC002369, AC005041, AC002426, AL050307, AL078581, AL133163, AC006057, AL121603, AC004796, AC005887, AC007052, AL049712, AL049636, AF053356, AC006354, AC004408, AC004181, AL050348, AC005158, AB023048, AL022724, AC004686, AP000697, AC005095, AC004999, Z93016, AC005670, AJ011930, AC008072, AL009172, AL022238, AL035659, AL121652, AL080317, AC005535, AC003982, AL117258, AC008115, AL024508, AP000302, AC005844, AF001549, AC005484, AC006017, AC004491,

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HMMBQ08	8313	958988	1 - 343	15 - 357	N24829.
HMMBO49	8314	722753	1 - 439	15 - 453	R56828.
HMMBO28	8315	686318	1 - 344	15 - 358	AI242854, and T99820.
HMMBN76	8316	769890	1 - 482	15 - 496	W88435, R98924, and T80763.
HMMBN71	8317	973436	1 - 458	15 - 472	Z99396, AL119484, AW392670, AL119439, AW372827, AL119391, AL134530, AL134519, AL119319, AW384394, AL119522, U46347, AL036418, AL038837, AW363220, AL119497, AL119457, U46350, AL119324, AL037051, AL036725, AA631969, AL119363, AL119443, AL119483, U46351, AL119355, U46349, U46341, AL119341, AL119335, AL119396, AL038509, AL036858, AL119444, AL119418, AL039074, AL119496, AL036924, AL037205, AL134528, AL043003, AL042614, AL119401, U46346, AL042544, AL134525, AL037639, AL134524, AL039564, AL039085, AL037094, AL039156, AL134518, AL037082, AL042984, AL042965, AL042975, AL039108, AL039109, AL037526, AL039128, AL119399, AL036196, U46345, AI142137, AL134538, AL043019, AL042542, AI142132, AL042551, AL036767, AL037085, AL038447, AL043029, AL036190, AL042450, AL037077, AL036268, AL038520, AL038851, AL036238, AL037615, AL119464, AL036774, AL037178, AL036998, AL036733, AL036719, AL037027, AL036765, AL036679, AL036191, AL036158, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AB026436, AR043113, and AR054110.
HMMBN54	8318	729352	1 - 384	15 - 398	H73690, and AF152365.
HMMBM8	8319	781010	1 - 228	15 - 242	T95450, W03267, and AC004112.
	3				
HMMBL55	8320	731523	1 - 438	15 - 452	R36479, and AI091460.
HMMBH64	8321	746402	1 - 337	15 - 351	T78390, and AL031714.
HMMBF86	8322	812597	1 - 156	15 - 170	H56329, AA852740, AA331858, AA314410, AA375100, AA356819, AA331462, AA295347, AA232345, AA242864, AA081834, AL037869, AL037847, U91327, and AF026166.
HMMBF72	8323	761389	1 - 304	15 - 318	T91720, and AC007016.

HMMBF41	8324	711731	1 - 492	15 - 506	T40112.
HMMAV44	8325	716396	1 - 628	15 - 642	T86763, T86671, F05025, F05024, AL109758, AC005089, AC004770, AF053356, AP000555, AC002400, AL032821, AC002300, AC003010, AC004938, AC002302, U89335, AP000512, AC005067, AC005412, AC008038, AF001550, AC006480, and AC005529.
HMMAT23	8326	973437	1 - 572	15 - 586	AL035447.
HMMAT08	8327	959005	1 - 519	15 - 533	T64273.
HMMAS73	8328	764280	1 - 583	15 - 597	N47781, AL732466, AA133879, AL820506, T70099, AL821351, T70032, N56894, and AC006599.
HMMAR20	8329	669523	1 - 648	15 - 662	AA968696, AL017739, T71248, R85439, AL343336, AL168580, and AL699440.
HMMAQ70	8330	757070	1 - 428	15 - 442	W04436.
HMMAO06	8331	935087	1 - 643	15 - 657	AL241754.
HMMAL71	8332	760206	1 - 412	15 - 426	AA449997, AL079734, AA502207, AL733856, AL683552, AL041375, AA297666, AL859438, AL279417, AA714110, AL732483, AW237905, AL366993, AA715814, AL049630, AL281561, AL053696, AL491765, W23546, AA410788, AA508809, AL047349, AL783911, AL284045, AL908093, T74524, AA704393, AL912401, AL046519, AL821881, AL753113, AL821918, AL281818, AW080215, AA669238, AL114733, AL133552, AL251576, AW243793, AA558366, AW340905, AL962030, AL054244, AL440117, AL135377, AA609834, AA584241, AW193493, AA483606, AA515138, AL620585, AW419389, AL753672, AA904275, N23913, AL936229, AA507343, AA720732, AA315361, AL620992, AA570740, AL119909, AL270177, AA535216, AL753365, AL612142, AW167154, AW407632, AL961983, AL417469, AA632765, AA503018, AA665021, AL053784, AL066646, AA128511, AA992562, AL583466, AL267269, AW089625, AL597832, AL801563, AA513551, AL380617, AA568204, AA133013, H07953, AA904211, AL244985, AL284092, AL814682, AA557982, AW270619, AA084766, T05118, AL537995, AL130709, AL267356, AL267450, AA225392, AL306232, AA644090, AA610381, AW192373, AL267884, AL865213, AA533408, AW089016, AA730305, AC006312, AF030453, AC005088, AL049569, U80017, AC004851, AC005740, AC005899, AC006211, AC005081, AC005015, AC005225, AF196972, Z83844, AC009247, AF196779, AC005874, AF134471, AL096701, AC020663, AC004883, AC006511, Z83846, AC002425, AC005231, AP000558, U89336, AP000694, AC006017, AC005914, AL049795, AC005529, AC005086, AL121653, AL022163, AC005082, AC007226, AC006538, AF001552, U95740, AL035086, AL031846, AC005722, AC005527, AC004099, AC004491, AL049653, AL023883, AC005565, AL050318, AC004811, AF053356, AF001549, Z93023, AL096791, AP000692, U47924, AC006115, AC002483, AL022238, AC006121, AC007308, AC002126, AC006285, AC004876, AC005200, AC005519, AC005702, AC000094, AC006449, AP000557, AF064861, AC007421, AC007057, AC003026, AL020997, U96629, AL031281, AC004858, AC002565, AP000044, AC006006, AL080243, AC002477, AC005089, AC004796, AL049538, AC005358, Z84572, AL009183, AL049830, AL031005, AC005072, AC003982, AF130343, AP000212, AP000134, AP000967, AC004263, AC008115, AC003663, AL034420, AC005730, AL034379, AC006544, AC007384, AL132712,

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HMMAL69	8333	754908	1 - 395	15 - 409	W87482, and T40816.
HMMAL59	8334	738982	1 - 414	15 - 428	AI866921, AI866920, AA135159, R06121, AW004825, AI683019, AL031120, and AC004854.
HMMAL54	8335	729351	1 - 422	15 - 436	AI245693, AW303822, T08386, AC005763, AC005696, AL031311, AC004804, Z99716, AJ246003, D87675, AL121658, AC003101, AC004150, AL031280, AL035079, AC007262, U85195, L44140, AE000658, AC005412, AL022316, AC004890, AF165926, AC005520, AL121652, AC002314, AC002041, AD000092, AL049766, AC005736, AC005180, AL035422, AC004854, AC005049, AL109628, AL035405, AC004491, D88268, AL049764, AC005562, AC005932, AF045555, AP000104, AP000115, AC004972, AC007160, AC005081, AC018633, AB026898, AL049829, and AL096712.
HMMAL44	8336	716407	1 - 411	15 - 425	W86636, AI692200, and AI800445.
HMMAL42	8337	713542	1 - 411	15 - 425	AL133246.
HMMAL35	8338	707278	1 - 291	15 - 305	AA492230, AI890283, AA506952, AI684335, AI983447, U73642, AC005484, AL031848, AC005231, Z84466, AC009247, AC002558, AF205588, AC006241, AC006064, AC005200, AC005544, AC004686, AC006511, AC004491, AL034370, AL133396, AC004805, AL049776, AC005529, and AC007382.
HMMAL30	8339	693545	1 - 137	15 - 151	
HMMAL18	8340	665512	1 - 386	15 - 400	
HMMAL16	8341	661699	1 - 399	15 - 413	AA782338, AP001052, AC006012, AC005736, AL022331, AC005632, AP000558, AC009516, AL136504, AC007688, AC007938, AL008718, AC007731, AC005500, AP000553, Z85996, and

						AC005255.
HMMAK83	8342	781016	1 - 697		15 - 711	AA007282, AI698091, AA007283, H78432, R91689, R97591, AI311305, R91688, and AI302599.
HMMAH61	8343	741662	1 - 437		15 - 451	H40407, AW391548, and AI356524.
HMMAF92	8344	973971	1 - 618		15 - 632	Z99396, AW392670, AW372827, AW384394, AL119355, AW363220, AL119319, AL119497, AL119443, AL119335, AL119363, U46341, AL119483, AL119457, AL119324, AL119496, AL119484, AL119391, AL119396, AL119341, AL042614, AL119522, U46349, AL042970, AL037526, AL042433, AL134518, AL042965, U46351, U46346, AI142137, U46350, AL134920, U46347, AL119444, AL119418, AL119320, AL042995, U46345, AL119439, AL037205, AL042850, AL038520, AL134532, AL119488, AL036268, AL119304, AL036679, AR060234, AR066494, A81671, AB026436, and AR054110.
HMMAF34	8345	842015	1 - 466		15 - 480	AA513125, AI926296, AI949430, AW085621, AW168103, AI583532, AI474110, AA826599, AI473995, AI073373, AA056206, AW166944, AW173443, AL037632, AA297776, N70293, AC002096, AC006080, AC005726, D84401, Z82215, AL031228, AL022067, AL034548, X87344, AC003665, AL020989, AL022097, AC005004, AL033524, AC004408, AL034554, Z95152, AC005089, Z99716, AC006597, AL132708, AL049553, AL109748, AC005858, AC007056, AC005539, AC002430, AC007384, AL022165, AC007182, AP000502, AC005859, AP000065, AL008732, AD000092, AC009464, AL031584, AC005669, AC005409, AF196779, AL139054, AF053356, AL096791, AL049869, AL109801, AL031905, Z86090, Z93020, AC003663, AC004890, AC007308, AC002470, AL031289, I78810, AC005747, AB023048, AP000511, AC005820, AL035703, AB022785, U89336, AL031005, Z84466, AC004876, AL022316, AP000555, AB014079, AC006139, AP000514, AC005088, AC002094, Z99289, AC005988, AC006117, AJ003147, AC002550, AL031284, AL034562, AC003086, and AL122020.
HMMAE45	8346	720838	1 - 791		15 - 805	T91212, T79614, AA553354, AI144465, H75716, H75645, and AF085988.
HMMAE16	8347	856007	1 - 390		15 - 404	AI915564, AI538833, AW449097, R33336, and R21762.
HMMAB96	8348	826488	1 - 772		15 - 786	AL119483, AL037777, AI267356, AA298789, AI133083, AI270177, AW069227, AA381754, AI754567, AI755214, AI362442, AI249688, AI754105, AI634187, AW265155, AI249519, AI085242, AA302971, AI754687, N63149, AA584438, AI457313, AC005519, AL078584, AC005412, AC005919, AC004921, AC003012, AC000025, AC002288, AC004492, AC006017, AC005529, AC002316, AC004922, AC007114, AC002303, AC005183, AC005694, AC004228, AL034379, AL022330, AL035415, AC003049, AC007227, AC006449, AC004799, AL049776, Z83844, Y18000, AP000212, AP000134, AP000030, AL117338, AC005527, AC005243, AC005015, AC004032, AL035443, AL021368, AC005220, AC007687, AC004983, AL049829, AC007298, AF001552, AC007225, AL022334, AF196779, AC006312, AC008149, Z94056, AC002287, M89651, AC004638, AL035422, AC005730, AC007688, AC004837, AC005874, AF134471, AC005081, AC006064, AL035410, Z98200, AL135783, Z99570, Z85987, AC004770, AC002352, AC002470, AC002302, AL034548, AC004796, AC005722, U91323, U78027, AC005899, AL008635, AC005553, AC004106, AL079342, AC004825, AC007537, AC002457,

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HMCIW93	8349	897377	1 - 293	15 - 307	AW238972, AW406916, AA075901, AA044211, H25630, H43485, AA287470, AA296869, AA296696, AA298795, R55519, H80718, H73675, AA034079, AA296826, AA187096, AA218811, AA297863, AA296837, R95168, N86960, R39644, T10507, AA485829, AI342703, C00212, W95348, AA806231, AF161462, and AC002390.
HMCZH77	8350	771795	1 - 345	15 - 359	R07250.
HMCBS34	8351	703691	1 - 483	15 - 497	T86231, T83384, and T86130.
HMCBK58	8352	752431	1 - 574	15 - 588	AA160383, AI818161, AI962470, AI655470, AI201401, AI962522, AI809442, AA757199, AA954406, AI557476, W46315, AI263049, AI557453, AA332432, AI867723, AA383667, AI205764, AA370001, AA157926, AA884706, and T78360.
HMCX46	8353	886903	1 - 415	15 - 429	
HMCV66	8354	787512	1 - 203	15 - 217	AI159933, AI971968, AA906691, AI183889, W79831, N92399, AA557293, AI350318, AI017848, AA127092, AI189367, AI924445, AA911261, N70568, AI273685, AI291841, AI912574, R49953, AA937786, AA988459, AA404424, AI081962, W19157, AI129889, AA935718, AI0666610, and AF111170.
HMCX39	8355	856222	1 - 484	15 - 498	W27128, and H14722.
HMCX57	8356	734404	1 - 405	15 - 419	AI304652, AI347073, AI343275, AI261508, F26025, AA936207, N66083, AA769680, AI867524, AI262402, T99852, and AA854036.
HMCX86	8357	846578	1 - 498	15 - 512	N58309, AI741756, AA719678, Z39349, H77634, AA868804, AW183178, AI033998, AA910754, AA837855, AI310989, AI753587, AA907745, AA424559, AI015988, AI290795, AA992451, AI025107, AA806009, AA007654, AI033216, AI399750, T06491, AA917469, AA134955, AA702309, AA934480, AA873079, AI097519, W90376, AI818372, R05851, AA285180, AW118589, D56552, AI474543, R98024, T03445, AA886062, AA533260, M78918, AI468146, AA309446, AA424656, AA492384, AF132945, and AF112204.
HMCX04	8358	927002	1 - 529	15 - 543	AA569402, AW070532, N38778, AW190781, AW340905, AA535216, AW023111, AA773463, AW237905, AA714110, AA828637, AA524616, AI674840, AI755202, AI0666646, AW272294,

AA225406, AA456924, AI061313, AA632765, AW277174, AI635028, R92658, AI755214, AI754567, AA832175, AI732151, AW270768, AA704393, AA904211, AA572813, AA644090, AI291037, AI469140, AI754105, AW270619, AA630854, T50676, AA534064, AA720774, AI046519, AA715814, AW103406, AA410788, AW328331, AI004591, AA228824, AA523203, AA523204, AL079734, AI491765, AI251576, AI884383, AI053696, AA483606, AA579152, AI609972, AI923451, AI306232, AA527602, F35374, AA720732, AW151935, AI733856, AA570740, AA126475, AA613624, AI370475, AA297666, AW274078, AA653139, AW238253, AA558404, AW081485, AA548610, AI355246, AW130427, AI583466, AA829065, AW075132, H71678, AI955029, AI114733, AI590458, AW243793, H05066, AI345695, AW301771, AI133552, AW274191, AA557982, AA581525, AI801649, AI301373, AA536040, AI446452, AW167330, AI923458, AI627917, AI750865, T74524, AA700943, AA568204, AI570943, AA504818, AI249688, AI249365, Z97053, AF045555, AC005844, AC005081, U91326, AC007182, AC002544, AL031662, AC003098, AF196971, AC004895, AC006077, AC005839, AC004242, AL132641, AF196779, AC005412, AI022323, AC007637, AC003101, AC006285, AL021878, AC005274, Z98742, AC005971, I44140, AC003029, AC007999, AF134726, U95742, AP000354, AL109628, AL049776, AL117694, AL035249, AL009181, AP000557, AC005189, AC005531, AL022322, AC005089, AL008726, AC004797, AB023049, AC004883, AC005690, AL133448, AL031321, AC004760, Z83844, AL035086, AC004647, AF130343, Z84487, U91323, AC004448, AL078638, AC006241, AL050321, AF207550, Z84488, AL008719, AF051976, AC009247, AC007435, AC007216, Z83847, AC005736, AC005280, AC004973, AL022165, AC006023, U95090, AC005486, AL121652, AC004922, Z95331, AC004531, AL024498, AL096791, AL031846, AL031280, AC003684, AL031431, AC004517, AB020865, AL035443, AP000556, AC002996, L77570, AL109798, AC004864, AC002558, AL031710, AC005512, AC007226, AC002310, AC004750, AC003108, AC006111, AC004821, AL035659, AF217403, AC005914, AC006011, AC005324, AL031587, AC002425, AC005086, AL034429, AC007055, AC005740, Z95114, AL049712, AC005944, AL034417, AC000353, AC009516, AL121653, AC004814, AC007450, AL139054, AL035420, AF001552, AL031681, AF038458, AC012384, AC002470, AL031311, AC007225, AL033397, AL078639, AF111168, AC002352, AP000501, AC004033, Z99127, AL050307, AL031295, AL049694, AC006071, AL137191, AL031432, AC002126, AC005829, AC003663, AL022315, AC005993, AC003010, AC004134, AL031597, Z97054, AL096702, Z95400, Z98752, AP000117, AC005697, AC002395, AC004552, Z95152, AC005500, AC004491, AP000030, AL034420, AL034423, Z98743, AL021453, AC005520, AP000211, AP000133, AC005088, AC000003, AC004966, AC005015, Z82182, AC007536, AJ003147, AL096712, AC004820, AC004762, AC002430, AC016025, AC004148, Z82976, Z99128, AC004241, AF067844, AC006160, Z86090, AC006130, AC006275, AF024533, AC006040, AC004099, AL035685, AC004953, Z93241, AC005519, AC004408, AP000251, AC002070, AL035422, AC002476, AL121655, D87675, AC007686, AC007384, AC006960, AL021546,

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HMCDN93	8359	791555	1 - 340	15 - 354		AI889060, AW015362, AI423278, AI096899, AI498494, AI421575, H86117, AW015459, AI399718, AI972927, AA745122, R40242, AI669223, D87468, and AF193421.
HMCDC70	8360	757192	1 - 360	15 - 374		AI334327, AI312094, AI337819, AA506997, AA576525, H71553, and AA729906.
HMCAR04	8361	925591	1 - 551	15 - 565		AL048459, and T98081.
HMALZ77	8362	856266	1 - 330	15 - 344		AA111882, and T73731.
HMAIK06	8363	933960	1 - 395	15 - 409		W21990.
HMAJZ39	8364	751523	1 - 532	15 - 546		AA182941, and Z43441.
HMAJL09	8365	950168	1 - 633	15 - 647		AR007575, I18860, I18861, I55990, and I55991.
HMAIU90	8366	886821	1 - 531	15 - 545		AI393335, AI683302, AB008185, and AB008184.
HMAIQ20	8367	669436	1 - 446	15 - 460		H87256, H87307, AI640360, AI263034, and AI360741.
HMAIH15	8368	956705	1 - 527	15 - 541		AA585439, AI526194, Z28355, AI541508, AI541514, AI546855, AI525306, AI541523, AA585101, AI577807, AI525556, AI546999, C16300, AI541509, AI525316, AI546945, AI546899, Z30131, AI535639, AA585453, AI541510, AI541534, AI556967, AI540967, AI546828, AI557799, AI577796, AI541374, AI541365, AA585434, T11028, AI547039, AI546875, R28735, AA585476, R29445, AI526140, AI525431, AA585356, D61254, AI541535, AL040149, C15189, AI541307, AL041140, AL040464, AL040155, AL041346, AL041096, AL047012, AL041358, AI557787, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL044162, AL041086, AL043496, AL041296, AL041233, AL045725, AL040193, AI541017, AI557731, AL041197, AI526180, AL043612, T23985, AL040463, AL047219, AL041227, AL039915, AL047170, AL080031, AL040119, AL040553, AL040529, AL041292, AL041051, AL040322, AL041131, AL046330, AL045990, AL041133, AL040253, AL041238, AL041142, AL040625, R29177, AL040510, AL043467, AA585440, AL044186, AL047057, T23957, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL046442, AL040332, AL040617, AL045684, AL040576, AL040745, AL038761, AL040370, AL043677, AL049018, AL040839, AL041752, AL047036, AL041159, AL043775, AL044165, AL043492, AL041602, AL043444, AL045920, AL047183, AL038838, AL045817, AL044074, AL041635, AL040458, AL044199, AL044187, AL040090, AL040263, AL040294, AL040075, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL041374, AL040052, AL045671, AL043845, AL041246, AL039338, AI525321, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL039744, AL041577, AL044258, AL046850, AL038532, AL040768, AL037727, AI541013, AL046994, AL040414, AL040571, AL040472,

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HMAIA55	8369	899404	1 - 1005	15 - 1019	AI380016, AA917719, AI990640, AA380953, and AI002739.
HMAHP37	8370	566344	1 - 428	15 - 442	U79131, and U79132.
HMAGT95	8371	795686	1 - 344	15 - 358	H19699, and Z57976.
HMAGS90	8372	788683	1 - 346	15 - 360	AA232761, and AA232130.
HMAGI39	8373	910152	1 - 367	15 - 381	AW445199, AI291885, AI291659, AI681688, AI796788, AI863432, AI371323, and AI586930.
HMAFF71	8374	760304	1 - 538	15 - 552	AA133358, AI025161, AW340752, W05217, AW402176, AA036844, AW444614, AI733576, and AI137679.
HMAFC96	8375	796348	1 - 436	15 - 450	H73609, AC002536, and AF125569.

HMAEK93	8376	791549	1 - 750	15 - 764	AA861218, AA150260, and AA150251.
HMADF74	8377	944465	1 - 1131	15 - 1145	AA311043, H11578, R59755, AA927842, AA199784, AI000363, AI126309, RI13187, AI693684, and AL096806.
HMACZ84	8378	975349	1 - 340	15 - 354	
HMACV54	8379	922354	1 - 409	15 - 423	AI000925, AI261943, AA614341, AA532388, AI000930, AI742836, AW376738, AW136154, AW376570, and E08096.
HMABT55	8380	753560	1 - 444	15 - 458	N50809, AA931135, AA972697, AA401345, AI024270, AA873221, AW082806, AW025001, AI752742, AI138745, AI277497, AW452978, AI554935, H50235, AI911227, AI700463, AW303800, AI275531, AI241950, AI760168, AI095901, AA618048, AI936652, R09749, AA936697, AI199598, AI206725, AI830389, AA084391, AA987748, H64022, H06700, AI926722, AA988399, AA838228, AI357218, AI362511, AI362439, AA937768, AI879499, AI693589, AI366339, AI363966, AW363996, T91307, AW149618, AA025560, H15722, AA991841, AA970173, Z40694, AA663409, H20195, AW083589, AI963935, AA843550, H64785, AI243967, AA725384, AW449564, AW450568, AW339993, W96140, W92486, H41770, and AA018786.
HMABD66	8381	388074	1 - 370	15 - 384	
HLYHN64	8382	970747	1 - 577	15 - 591	N53558, AI078352, H49897, W00521, N30989, N57223, AA314759, AA431398, AA972343, AA593987, AA418304, AA101913, W90550, H67020, AW450639, N36463, AA120767, AI494530, H53270, H54554, H54238, AA011423, H66916, AA385267, AI784295, W07652, H84477, AI188087, AI379720, AA430152, and AC005859.
HLYHN40	8383	710825	1 - 468	15 - 482	H82097, H10880, and H96186.
HLYHL55	8384	731447	1 - 447	15 - 461	R32479.
HLYHK64	8385	746310	1 - 456	15 - 470	H53572, AA745885, H28445, AI494060, AI676167, AA889745, AI866665, AI245303, AA703022, AI016995, AW264349, AI254741, AI287476, AW160916, AA580663, AI345688, AA742390, AA641818, AI138406, AI590043, AI309380, AI567846, AI537244, AW075382, AI538885, AW151136, AI432644, AI500061, AW079432, AW022808, AI859991, AI953765, AL037454, AI623941, AW022636, AI287233, AI702527, AA766077, AW161579, AI540674, H89138, AI587121, AW304497, AW268759, N29277, AI673278, AI918449, AL118781, AI473451, AA811142, AI538764, AI868204, AI866461, N63128, AW161156, AL037602, AI446373, AI969655, AW020095, AI499890, AW021717, AI890907, AI345745, AA676361, AI929108, AW020419, AI039086, AL047344, AI581033, AI961278, AI537274, AI432570, AI686576, AW020693, AI340603, AL037582, AI537677, AI621341, AI524654, AI866465, AI698391, AW162194, AI284517, AI560545, AI923989, AI241901, AI783530, AW020397, AW190297, AL135024, F26535, AI371251, AW163834, AW021373, AI289791, AI888621, AI473536, AI589428, AI696603, AL046466, F27438, AI281757, AI270295, AI471282, AI636619, AI933992, AW082532, AW274343, AW051088, AI472484, AI633125, AI829990, AI538564, AI553645, AI036631, AI915291, AW152182, AW274318, AI582932, AI872423, AI540606, AI434731, AI524179, AI521560, AI889189, N52016, AI539800, AW195253, AI309306, AW104141,

AA761557, AI927233, AW274084, AW051059, AA812110, AI866469, AA502794, AI801325, AI285826, AW169784, AI500714, AI983457, AW162189, AI610399, AL047675, AI884318, AI355779, AI638644, AW238688, AL119399, AI570056, AL047854, AI091468, AI628325, AI678446, AL134712, AW161202, AL037030, W74529, AA493923, AL048323, AL040169, AA579618, AA070889, AA494167, AL048340, AW268937, AI537643, AI242248, N22276, AI819545, AW023338, AI312210, AI289863, AI915295, AW168320, AA836220, AI699823, AI679959, AA829859, AI499581, AI702065, AI349933, AW022682, AI631216, AL039132, AA056265, AI471325, AA748814, AA908294, AI364788, AI561356, AA468418, AI798271, AI589668, AI345370, R81679, AL121564, AI345253, AW059828, AW068845, AI343091, AL040207, AI683395, AA176980, AW151979, AI251221, AL043070, AA001397, AW191003, AL079963, AW022699, AL036274, AI340519, AI828412, AI345608, AI565172, AW089275, AW128841, AI500706, AL047100, AI494201, AW020710, AI811603, AI500662, AI609594, AI611816, AL045413, AI366992, AI309769, AI784214, AL036396, AI699865, AI538850, AI474646, AA693331, AA614183, AI345415, AL041862, AI690813, AW088560, AL036638, AA127565, AW081250, AI284509, AI345471, AI890214, AA579232, AA635382, AL109728, A65340, X84990, L04504, I33392, A77033, A77035, AF106862, A17115, A18079, AF100931, I33391, AL122110, I48978, E07108, AL122093, I89947, AF200416, U51587, S77771, A15345, AR013797, AI8777, AF039138, AF039137, E05822, AF118090, AF031147, AF146568, AL133113, AL137294, U35846, A08910, A08909, AL133640, M27260, AF111849, AL110225, AR038854, A08908, D16301, U67958, AL122050, AL133016, A08913, AL117644, AF087943, I40363, A76335, AL049314, I68732, U75932, AF090934, AL050277, A08907, AF026124, AL137529, AF061981, AB026128, AL110218, A08912, AF111112, S61953, Z37987, AL122100, AL050116, A03736, AJ012755, AL137479, S75997, X65873, AR068753, S76508, AF113677, AL117457, Y07905, X63574, A23630, E12747, L04849, I89931, AL137478, AJ000937, AF183393, AL133624, I48979, AL117460, I32738, AL096751, AL122121, AL133112, A58524, A18788, A58523, X81464, I49625, I96214, AR034830, Y16645, AF097996, AF210052, Y14314, I09499, AI2297, AL133565, A08916, I89934, A21103, A65341, AL080159, X62580, X63162, A91160, AL137533, AL122118, AL137488, AL080148, A91162, AL137476, AF115410, AL133560, AL136884, AF079763, AL137538, AF090901, E01614, E13364, A08911, AF113694, AL117626, AL137271, AL137459, AL133557, A58545, AJ003118, AF177401, AL117394, AL133619, AL117435, AL137555, AF061573, AF026816, AL137526, AL080154, I52013, L13297, AF090903, AF044323, AF030513, AL133606, D83032, S78214, AR068466, AL110159, S78453, S36676, AL133093, X79812, X60786, X83544, AL133645, D89079, U58996, AF143957, AL080110, E01812, AL117585, AF151109, AL117649, AL137574, S68736, E12580, AB029065, AL137292, AL137550, AL110280, AL133665, AL122123, I00734, AL117648, AL137429, X82434, S63521, A49139, AL050149, U37359, AL023657, AF125948, E00617, E00778, E06743, AF106657, AJ005690, U72620, D55641, AF113019, X87582, Y10936, AL122106,				
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	8386	932994	1 - 1027	15 - 1041	<p>AF090886, AF008439, I79595, AL137276, AL137463, AF002985, AB028451, AF100781, AF028823, L19437, AF119336, AL110196, AL133080, AR000496, AL137530, U39656, X70685, AF115392, Z13966, Z82022, AL117416, X52128, A93350, AF017152, E01314, AF061795, AF151685, AL133062, A45787, AF199027, AL133077, AL096720, U78525, AL050155, A52563, AL050138, AR034821, AL110222, AL137548, AL137480, AL080163, Z97214, X83508, AJ001838, AL133067, A57389, AF017437, Y10080, AL049938, and AL049283.</p> <p>AI628843, AW167099, AI093592, AI926603, AA470016, AI986035, AI313500, AA617710, AI027777, AA865403, AA514353, AA782005, W69345, W69267, AA860421, W01351, H30472, AA423925, AW131013, AI299627, AA423887, AA034305, AA781518, AI160307, AI446603, AA922534, AA533814, W16698, AW169172, AA654163, AA412735, N69522, AI440188, AI610236, AI752781, R26875, AI306695, AA412294, AW409605, N79834, AA459402, AI049694, AW068125, AA534481, AA745698, AI347601, N54138, AA626929, R72510, AI865836, AW044069, R94735, AA024807, R72511, AA932913, AA430220, AI383150, AI539588, W67475, AL044134, N58666, AI223230, AW088334, AI186385, AI902383, H72504, AA295920, W38450, R70436, AA545735, AA491113, AL044135, R11021, AA834248, W67476, N58200, H72902, AA459627, R53036, R69450, AW368627, AI902360, H24955, AA431234, AI205760, AA552310, AA861991, R27103, C17844, F04994, H77299, D29280, AI436086, H25748, R53035, AA411966, AI648587, AA432254, AI002434, AI016462, R94818, AA865593, AI051263, AI926118, AA643144, R24912, R37917, AA443912, H24995, R72497, R72498, R11020, and X52574.</p>
HL YHK61	8387	703776	1 - 505	15 - 519	<p>R67395, AA865763, AW238410, AI269636, AI636456, AL110306, AL119049, AI929108, AI475371, AL041772, AI567351, AI537273, AI492540, AL045500, AL119791, AL079963, AI497733, AI433157, AL036901, AI537677, AI868831, AI285735, AI343059, AI349933, AA225339, AI696626, AL036802, AI431909, AI433976, AA738104, AI340582, AI340603, AI800138, AI280607, AW238730, AW088899, AW151136, AL121328, AL119863, AW071417, AL121365, AI064830, AL044207, AI909642, AW020095, AI919107, AW162071, AI500077, AI288285, AL040241, AL036396, AW074993, AI888953, AI815855, AI349645, AI344817, AW301344, AW268253, AI699865, AI312152, AI366992, AI312428, AI336575, AI349937, AI499652, AW087445, AW089572, AI802542, AA640779, AW103371, AI349256, AI269862, AI815232, AI697324, AI280732, AI888944, AI174394, AI580190, AI951076, AW302965, AI524671, AL121270, AW167222, AI364788, AL036187, AI680162, AI251830, AI869377, AI538716, AW078680, AI349772, AA613907, AI249877, AW129106, AI446373, AL041573, AW117882, AW020164, AL038605, AI340519, AL120853, AI048656, AI440426, AA427700, AL040169, AI610557, AL036361, AL047042, AW163823, AI521012, AI567360, AW071349, AI921248, AI627748, AI348897, AI619502, AI682743, AI687728, AW150578, AL119748, AW026882, AL135661, AI620284, AI345608, AW406745, N80094, AL036736, AI702073, AL135065, AI612913, AW168485, AI818683, AI499393, AI680457, AI783504, AW268251, AI500523, AI539771, AI560012, AI250663, AI343112, AI680498, AI922901, AI349598,</p>

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HL YHJ37	8388	708625	1 - 466	15 - 480		HI1582, and AC002433.
HL YHJ02	8389	919201	1 - 522	15 - 536		AA992212, and A1799979.
HL YHI05	8390	953925	1 - 476	15 - 490		AA830774.
HL YHF62	8391	743058	1 - 357	15 - 371		T47077.
HL YHE85	8392	784140	1 - 500	15 - 514		AA210805.
HL YHA48	8393	721372	1 - 489	15 - 503		AA251190, AA805977, AA765489, AA810907, AL118823, AA081462, HI8914, AL135357, AA493136, R17793, AL118862, AA654661, A1524360, A1745151, A1755214, AA845209, A1284092, AA984114, A1754567, AA845659, N71685, AA002063, A1754105, AA584125, N57739, AA748833, AW179306, AA643801, AA548356, AL138182, AA282820, AA126450, AA664320, A1683446, A1270096, AW179305, AL049834, AL031733, AC009399, AC005829, U91323, AL034418, AL049765, AC002544, AC004031, Z83822, AL135744, AP000251, AL023803, AC008085, U95742, AC007065, AP000031, AL049610, AC007938, AC006442, AC000004, AP000134, AP000212, AP000030, AC007216, AC009044, AC006241, AL049829, AC005874, AF134471, AL049712, AC006509, AC005823, AL031587, Z85986, AC005488, Z86090, AC005233, AC005736, AC004837, AC007240, AF064861, AL132777, AL117338, AP000213, AC005755, AL078638, AP000135, AC007011, AC006111, Z83840, AC005037, AC004098, Z98036, AC007731, AC005005, AC007686, AL022165, AP000688, AL023799, AP000356, AC008101, AL031584, AC005484, AC003664, AC003982, U52112, AL035681, AC006441, AC007386, AL031053, AC002375, AP000692, AC005324, Z98304, AL022316, AC005899, AB003151, AC006958, AC005412, AC003098, AC007014, AC005225, AF107045, AC003029, AC005740, AL022574, AL121652, AC004821, AC005911, U95743, AF196779, AL031427, AC004905, AC006064, AC007707, AC003688, AC006511, AC007566, AC008079, AC006146, AC005180, AC002119, AC005102, AC004615, AC005523, AP000493, AL031311, AC004032, AL035071, AC004859, Z94721, AC004966, AL049576, AC005914, AC006317, Z98946, AL121658, AC004526, AC009247, AP000557, AC007934, AC005399, AC004895, AF111168, AL122020, AC007314, AL031431, AC005018, AC005091, AC005971, AC002565, AC005924, AC006581, AP000556, AF024533, AC004605, AL021918, AL035587, AL034417, AC005215, AC004134, AC006084, AC008009, AL021154, AC002477, AC008372, AC004257, AP000513, AC006515, AF001549, AC005545, Z82172, AL022323, Z75888, AC006167, AC005520, AC004167, AC007262, Z93017, Z81364, AC004491, AC004150, AC006079, AL096791, AL110502, AF051976, AL022163, AL049646, AL031230, AL109842, AL022476, AC006538, AC009516, AL078477, AL035089, AL096712, AC007666, AC004813, AC005996,

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HLYHA04	8394	614848	1 - 369	15 - 383			H60556, and T71255.
HLYGZ71	8395	760115	1 - 1102	15 - 1116			AA043495, AI951943, AW193804, AI694511, AI128000, AA412019, AI004612, AI652122, AA149258, AI184929, AI831205, AI914140, AI825243, AI828310, AA720916, AW016629, AI827812, AI696053, AI631553, AI962314, AI671447, AI917812, W16795, AA338943, AI968277, AI967940, H24914, AA149273, AA338944, AW196482, AA973869, AI962471, AA905468, AI394723, AI874337, and AC004707.
HLYGZ11	8396	966503	1 - 631	15 - 645			N69782, and AI282808.
HLYGY60	8397	740081	1 - 510	15 - 524			AA699729, W04930, AI200342, AI742692, AI571717, N31641, AA255846, AA158572, AI672122, H09986, AI872640, T97584, R11183, AL050099, AF090421, and AF074393.
HLYGW95	8398	795682	1 - 547	15 - 561			AW026243, AI040710, W84710, AW008549, AA573109, AA236651, and W78856.
HLYGR56	8399	733123	1 - 623	15 - 637			AA149383.
HLYGQ29	8400	689972	1 - 423	15 - 437			R37228, R21422, and AI336270.
HLYQG11	8401	966539	1 - 335	15 - 349			AA251264.
HLYGM76	8402	769835	1 - 438	15 - 452			AI914239, AA164188, AA911297, and AI299137.
HLYGM08	8403	958820	1 - 96	15 - 110			R25343.
HLYGT76	8404	685240	1 - 552	15 - 566			T48433, AI767091, AC002300, and AC007637.
HLYGH51	8405	871634	1 - 451	15 - 465			R07073, and AC009363.
HLYGD69	8406	754841	1 - 289	15 - 303			AA829595, and R96050.
HLYGB38	8407	709187	1 - 403	15 - 417			H60939, and H60852.
HLYFW38	8408	709185	1 - 378	15 - 392			AA011710, R07553, H90263, and AC003006.
HLYFU24	8409	856392	1 - 523	15 - 537			T93162.
HLYFR17	8410	859567	1 - 779	15 - 793			AW139151, AI871342, AI763244, AI452467, AI553909, AA948409, AA010128, AI222204, AI143693, AI422032, AI273370, AI272906, AA854857, AI139496, R42952, AI192619, AW205762, AA853531, AI498208, AA736392, Z41265, AA010127, AI073814, AI928656, R64374, and R64373.
HLYFP56	8411	871637	1 - 510	15 - 524			AA811657, AI342538, AW204675, AA748459, AA252369, and AL109939.
HLYFO29	8412	690381	1 - 508	15 - 522			AA058482, AI784112, AL022476, and AC004924.
HLYFE11	8413	966519	1 - 641	15 - 655			AA777743, U95742, and AC007216.
HLYFD51	8414	725116	1 - 536	15 - 550			H09377, AW405976, AA281160, AB018260, and AC007868.
HLYFC54	8415	729299	1 - 528	15 - 542			H81232.
HLYEV46	8416	889678	1 - 453	15 - 467			AW016081.
HLYEV42	8417	856395	1 - 571	15 - 585			T95746.
HLYET54	8418	729406	1 - 542	15 - 556			R94090.
HLYET48	8419	721501	1 - 416	15 - 430			R19796.

HL YET17	8420	662764	1 - 406	15 - 420	R10240.
HL YES45	8421	717640	1 - 629	15 - 643	R13145, AW402725, and AA322385.
HL YEP59	8422	739151	1 - 523	15 - 537	T72749, and T78529.
HL YEO83	8423	781038	1 - 623	15 - 637	AA088553, W27797, AA085803, AA088387, and AA811260.
HL YEO37	8424	708623	1 - 622	15 - 636	H73386.
HL YEL71	8425	760220	1 - 536	15 - 550	AA234738.
HL YED44	8426	716430	1 - 341	15 - 355	AA074364.
HL YEC21	8427	670678	1 - 411	15 - 425	N55397.
HL YEB11	8428	966748	1 - 338	15 - 352	H81361, T86913, R11275, and T81629.
HL YEA92	8429	561537	1 - 390	15 - 404	AC004904.
HL YEA86	8430	488801	1 - 416	15 - 430	H60327.
HL YEA70	8431	943886	1 - 739	15 - 753	W79930, AA233418, T87364, AI765694, AI042017, AI672297, T87365, R94396, AI082728, R78669, R32116, AI768587, AI025761, AA564574, AI142898, AW026724, AI183414, AW183773, AI075126, AA127962, AI910695, N34843, AI628624, AW192585, H64364, H48681, AW263057, R32115, and H65991.
HL YEA49	8432	722787	1 - 319	15 - 333	T63328.
HL YDY72	8433	761359	1 - 465	15 - 479	T62223.
HL YDX40	8434	856401	1 - 447	15 - 461	H97055.
HL YDV57	8435	800224	1 - 196	15 - 210	AA015905, and Z94054.
HL YDU14	8436	658035	1 - 431	15 - 445	T69478.
HL YDT27	8437	856405	1 - 591	15 - 605	AA776723, AA683336, AI767217, and AI286332.
HL YDT09	8438	972424	1 - 399	15 - 413	
HL YDQ75	8439	767176	1 - 1007	15 - 1021	AA203659, and AW241874.
HL YDO45	8440	717079	1 - 430	15 - 444	H52699, AI792315, AI792132, AA602938, AI821784, and AA632549.
HL YDK95	8441	973370	1 - 448	15 - 462	Z97832.
HL YDI03	8442	923826	1 - 374	15 - 388	D29106.
HL YDG74	8443	939025	1 - 468	15 - 482	H13358, Z42104, H17403, and AI016363.
HL YDG42	8444	713579	1 - 394	15 - 408	H48653, and AC005971.
HL YDF07	8445	952940	1 - 531	15 - 545	AI475857.
HL YDD60	8446	740212	1 - 469	15 - 483	AA255936.
HL YDB08	8447	959076	1 - 375	15 - 389	AA704579.
HL YCX70	8448	757087	1 - 743	15 - 757	AW136494, AA975914, W01691, T78992, H82694, and AI696519.
HL YCX34	8449	703910	1 - 507	15 - 521	R93349.
HL YCX18	8450	943714	1 - 444	15 - 458	N23033, N28696, AI417970, AI379543, AI288223, AL119457, AL119464, AL134536, U46351, AL119324, AL119401, AL134525, AL119341, AI142131, AI037205, AL119484, AL134902, AL134531, AL134527, AL119355, Z99396, AL119418, AL042433, AR054110, and AR066494.

HLYCX02	8451	919563	1 - 486	15 - 500	AI149248, and AC004217.
HLYCU59	8452	679219	1 - 647	15 - 661	N50536, N50591, F25082, F31286, AA708834, AI128677, AI141858, AA496237, AI204314, AI087869, F27745, AI096570, W58285, AW044334, F24116, N93239, F34390, AI097157, N77900, AI694918, AI302021, F28502, F24691, AI216592, AA496229, AI215933, AI185557, N91784, AI015748, AA369658, AI383691, F21399, N93026, F35775, AA249321, F28306, W93864, F24386, AI911727, AI031778, AF161698, and AF086496.
HLYCQ43	8453	825509	1 - 776	15 - 790	AA533040, AL096701, Z92542, AC003007, AC002565, AC007308, AC006111, AC008079, AC007193, AC004526, AC006077, AL031283, AC005015, AC005081, AL133246, AC008101, AC004263, AC005399, AC004882, AC006211, AL020997, AP000512, AL133485, AC016831, AC002365, AC004821, AC007225, AL049776, AF095901, AC004382, AC005519, AC002470, AC020663, Z95116, AC004491, AC004851, AL020993, Z97053, AC005067, AP000047, AC006368, AC006950, AC002472, AP000065, AL049869, AC005089, AC006449, AL121658, AC005180, AC002288, AC005280, AL080243, AC005632, AL049872, AC005057, AC005071, AC005972, AC005037, AC007637, AC004966, AC002126, AC005529, U62293, AJ011930, AF124523, AP000689, AF227510, AC007993, AC005225, AL031295, AL022237, AP000115, Z84469, AC002504, AC005839, AF196779, AC004084, AC007386, AC004859, U91321, and AC005756.
HLYCP63	8454	856424	1 - 354	15 - 368	AA572949, AI808652, and AI911457.
HLYCO03	8455	923844	1 - 658	15 - 672	AA131813, AA131743, AA255495, AA256703, and AL021978.
HLYCM14	8456	657589	1 - 387	15 - 401	R95898, AI719970, AF130247, and AF165138.
HLYCL69	8457	914887	1 - 495	15 - 509	H81370, AA156982, and AA045946.
HLYCF51	8458	725067	1 - 435	15 - 449	T99595, and AI563950.
HLYCF37	8459	949401	1 - 1327	15 - 1341	AL138431, AL042377, AI871691, AI423034, AI419419, AW020150, AI380617, AI801479, AI440117, AL043052, AL044489, AW237905, AI904840, AL118843, AA282951, AW020094, AA225406, AL041375, AW021399, AW272294, AL037910, AI066646, AA551519, AW268322, AI279417, AI800426, AL135357, AA594157, AL138455, AA713946, AI242011, AI635028, AW238712, AI479148, AL041924, AA714110, AA760655, T05118, AI054418, AW275432, AL110373, AI356440, AA720582, AA584765, R98002, F30310, AA286836, AI554471, AA847395, AI445224, AI049643, AI095197, AI270177, AI032875, AA654874, AA808153, AI955029, W02749, AI086646, AW340905, AL042753, AI445297, AI755202, AL022165, AC002558, Z86090, AF205588, AL035420, AC006965, AC004832, AL022721, AC005779, AC005088, AC002563, AC005005, AF196779, AC004987, U91323, AP000116, L78810, AC007283, AC002991, AC010077, AC002477, Z99716, AC005527, AC005409, AP000042, AL022238, AC004383, Z95116, AL035405, AC006480, AC004813, AC002430, AC006211, AC005081, AP000045, AC007899, AC004858, AL096791, AC005291, AC006441, AC007055, Z95114, AC007384, AC002369, AC002401, AC005519, AL008731, AC020663, AC004874, AL023584, Z82206, AL031005, Z84487, U47924, AC005940, AC005180, AC004662, AL008582,

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HLYCC19	8460	668745	1 - 472	15 - 486	H53582, and AP000692.
HLYCB86	8461	785544	1 - 444	15 - 458	R78255.
HLYCB11	8462	967162	1 - 573	15 - 587	AA149546, AA115127, AI417248, AA114945, AI283409, AA164347, and AC006504.
HLYBX91	8463	790234	1 - 764	15 - 778	AA262444, AA210704, AA262445, and AA825796.
HLYBV44	8464	485853	1 - 479	15 - 493	
HLYBN17	8465	463988	1 - 519	15 - 533	AA259030, and AA741004.
HLYBM44	8466	715879	1 - 442	15 - 456	H52816, and H52779.
HLYBJ17	8467	664101	1 - 415	15 - 429	T66013.
HLYBH84	8468	856444	1 - 486	15 - 500	AL046592, W26468, AL039255, AB023228, and AL080133.
HLYBH68	8469	586582	1 - 684	15 - 698	
HLYBG85	8470	783508	1 - 472	15 - 486	T98972, AI052248, AA770344, and AI862542.
HLYBA50	8471	880734	1 - 556	15 - 570	AA827695, and AA833754.

HLYBA06	8472	935611	1 - 527	15 - 541	AA736563, AA642445, AA838190, AA724333, AA669153, AA380354, AI537772, AI114701, AW439555, H18914, AL119800, AI950671, AW151713, AW302909, AA665146, AW021161, AW304580, AW440545, AW301385, AA704393, AA832077, L35667, AC006538, AP000556, AP000557, AL009031, AF135187, AC005612, AL136297, L76568, U07562, AC007199, Z85987, AP000665, AL050348, AL031714, AC004020, AC006285, AC002326, AC005815, AL133239, AC016025, AC006126, K02579, AC003070, AC004975, AP000509, AL033523, AL031279, AP000690, AC002119, AC002301, AC005211, AF207550, AC004262, AL033517, AC005071, AP000359, AC007128, AC005933, AL024498, AC004051, AP000208, AP000130, U89337, AL031281, AC005952, AC005005, AC004590, AC004017, AC012083, AL022322, AC004887, AF007544, AL133102, AL049636, AC004832, AP000691, AF196969, AF217403, AC005519, AL035684, AC005067, AF111169, AC005377, AL022332, AC004983, AL022330, AC005324, Y07848, AL031664, AC005901, AC004813, AL079304, AC003969, AC005783, AF067844, AL020996, AF200465, AP000030, AC000026, AL024474, AC007639, AC004659, AC007637, AP000553, AL008721, AP000246, AC002059, AL050341, AC004751, AL109802, AL022100, AL080313, AP000134, AP000212, AP000964, AF190465, AL021392, AL049766, AC004775, AC005730, AL079301, AL024508, AL021155, AL022237, AC004458, AC004694, AL022333, AL008582, AL023575, AC005484, Z77249, AL009179, AL049795, AC005907, AL096794, AC006047, AC006509, AP000695, AC012384, AC005756, AC006211, AC007686, AC006013, AL034451, AL139054, AC005585, AL031680, AC005702, AC005081, AF031078, Z99716, Z84466, AL031663, AC004235, AB022785, AL031297, AF030876, Z82189, AC005578, AC002476, AP000008, AC005379, AC004921, AL049611, AC005940, AP000697, AL049712, AC004985, AP000967, AC007011, AC007546, AF030453, AC002070, AD000671, AC005799, AC002565, AL008734, AC006071, AC007790, AC007899, AC004889, L44140, AC001227, Z86090, AP000704, and Z97989.
HLYAX75	8473	767225	1 - 342	15 - 356	AC004242.
HLYAX32	8474	699337	1 - 188	15 - 202	AI926931, T92757, and AC004984.
HLYAU15	8475	782335	1 - 570	15 - 584	AA693492, AW404616, W15342, AA081452, T87195, AA360189, AI984687, T87282, and AL117352.
HLYAS35	8476	856469	1 - 430	15 - 444	AA703693.
HLYAR25	8477	678179	1 - 470	15 - 484	AA193337.
HLYAQ92	8478	792770	1 - 388	15 - 402	AI557306, AI623716, AA831121, AA687968, AA768629, AI458826, AI280154, and N42105.
HLYAQ70	8479	757235	1 - 793	15 - 807	R93501, R91736, R92164, and R93500.
HLYAQ69	8480	754229	1 - 329	15 - 343	R38112, and AL109679.
HLYAN68	8481	815950	1 - 365	15 - 379	AL109628.
HLYAN21	8482	854034	1 - 330	15 - 344	
HLYAN10	8483	964834	1 - 651	15 - 665	AA487424, AA578890, and AI524037.
HLYAL58	8484	736097	1 - 593	15 - 607	H10627, and R15002.

HLYAL22	8485	856473	1 - 443	15 - 457	AA847181, AA470533, AA484373, AW243954, AI821918, AI821881, AI268334, AI268336, AI805363, AA191659, AA507912, AI470431, AA583218, AA715805, AA583229, AA600869, AA605272, AL038936, AI065038, AI805547, AA683238, AA527209, AI470437, AI500453, AI250083, T60681, AW002350, AW102846, AA468022, AA501718, AI932599, AW277171, AA757775, AI801482, AA326356, AI460009, AI908093, AA811208, AI079683, AI469599, AA947454, AA351235, AA714110, AA578907, AA308328, AA420998, AI817976, AA421078, AI669046, N84446, AA651632, AA492391, AA469451, AL031228, AP000512, AL035530, AC002314, AC000003, AC007666, AL031005, AC005387, AC004821, AL050332, AC005231, U07561, AC005089, AC005015, AL021366, AC005919, AL133245, AC007225, AC005041, AF165926, AC007686, AC005971, AF207550, AC007364, AC005480, Z83840, AC002418, AC005066, AC004806, AC004659, Z95114, AC005102, AL139054, AP000553, U85195, AL133448, M63796, AC004148, AL049776, AP001137, AC007536, AC004972, AC005071, AL135744, AC005250, AP000557, AC006270, AE000658, AC004560, AL096703, AC004386, AL031848, AP000348, AC004098, AP000347, AC004858, AC002073, AL009181, AF053356, AC005034, AC004804, AP000688, AC004878, AC005324, AL049795, AC016025, Z93017, AC005399, AP000359, AC004019, AF129756, AC006064, AL031597, AC005330, AC020663, AC004883, AC005412, AC003041, AL049839, AC005393, U95742, AC005736, AP000010, AP000152, AC004895, AC005519, AF111168, AC007066, Z97054, AL022476, AC002558, AC007216, AL031680, AL049745, Z84474, AP000146, AP000337, U47924, AC004638, AC006285, AC005410, AL022724, AL050338, AL031777, AC005880, AP000117, AL022238, AC004797, AL031283, AL031587, AL031055, Z92542, AC007387, AC009247, AC004967, AL031311, AC007050, AC005484, AC005291, AC002126, AL080242, AF069489, AC002470, AL024507, AC002350, AL022237, AF109907, AL031662, AC004913, AJ003147, AL021707, AF196969, AC002563, AL022316, AC004381, AP000263, AC002312, AC004760, Z93241, AC006130, AL035450, AC004912, AC000353, Z84469, AL078581, AF031076, Z86090, AC005215, U29953, AC005740, AL135783, AC007308, AP000556, AL117354, Z85986, AL049766, AC006315, AL022320, AC006312, AL121653, AC003664, AL049569, AC004755, Z99716, AC000079, AC004848, AL049761, AC002553, AC002565, AL034379, AL132987, AP000692, AD000812, AP000087, AC000026, AC004813, AC005921, AL008720, AL031668, AC005500, AC004167, AC005225, AL117258, AC004998, Z99128, AC003029, and AL121934.
HLYAL11	8486	967173	1 - 327	15 - 341	AA809368, AW190881, and AL240461.
HLYAK36	8487	708028	1 - 356	15 - 370	T92768, and AA682689.
HLYAK34	8488	421604	1 - 430	15 - 444	AA013385, W96162, H84095, AA059069, AA054036, H84089, H86124, AA018232, AA018236, and AA058598.
HLYAJ49	8489	723039	1 - 422	15 - 436	W24486, C06267, R42858, AA978262, AA505146, AI636820, AI143214, AA045249, AI677860, AA491378, AA255801, and AL031297.
HLYAG59	8490	888232	1 - 427	15 - 441	

HLTHS37	8491	708613	1 - 789	15 - 803	T84485, and T84484.
HLTHS02	8492	856560	1 - 346	15 - 360	T81238.
HLTHC37	8493	708620	1 - 625	15 - 639	R51493, and A1702381.
HLTGT83	8494	780903	1 - 446	15 - 460	R58966, AW173238, AW188064, AA847255, and A1808879.
HLTGT36	8495	708027	1 - 863	15 - 877	AW131623, W69435, W69518, AW020239, AW449813, A1381962, AW166061, and AB020725.
HLTGS17	8496	662409	1 - 490	15 - 504	H6393, AA077817, A1357551, AA342901, F19258, A1914706, AW265197, AW074398, A1561335, F31204, AA228329, AA515128, F37286, N71724, AA368745, AA077952, A1886176, AW276435, AA654627, AA714140, AW406659, AA304977, H55859, A1249997, A1305547, A153983, F29989, A1610159, A1184226, A1345518, N23649, AA584749, A1613280, AA443065, T71998, A1284640, AA580662, AA650244, AW265654, A1003734, A1989742, F17518, AA340003, AL041368, A1287528, A1349874, F28576, A1358229, A1061334, F36273, AW438643, A1569086, AA515224, A1469172, AW406755, A1471481, A1298281, AW270284, A1365988, AA601270, A1557323, AA578154, N43757, A1473090, AA879053, AW151884, AA743956, AW337985, A1801600, A1951928, A1079910, A1286264, AW339687, AA299601, A1872421, AW130799, A1951889, A1445436, T12272, A1890052, A1127636, A1138265, AA450199, A1963786, A1635272, A1708009, A1587006, AA729264, H64560, A1299050, AA341228, AW340844, A1345675, AA665192, AW102955, A1921649, A1079645, AW021747, A1345681, AW168433, A1225141, AW022046, A1801591, A1344844, A1274692, F33566, AA658235, A1807372, AA641103, N25296, A1168185, A1421213, AW274349, A1376100, A1816537, AA745560, A1433187, T06556, AA295899, AW157005, A1824562, AW188544, AA501344, AA745431, AA745410, A1015912, A1499503, AA747472, A1028510, AA483204, A1471464, AA758934, AA605274, AW303196, A1042856, AW301350, N69962, AA626637, A1471487, AA558269, AW074059, A177861, AA776609, A1688846, A1356904, A1049634, A1340453, A1922654, A1564284, A1537955, AA176924, AC004142, U02048, L13709, M87918, L13713, L13714, AC006379, AC006241, AF002991, AC007488, AC006221, U52427, AL096775, D83989, AC004949, S42659, AC005003, AC005944, U02058, M87919, M87923, AL023284, AC006597, AC004027, AL121603, X55932, AC005722, AL023879, AC005485, U18393, AL035494, AC005225, AC002564, AF077058, Z50860, AF053356, Z49237, AL023807, AP000432, AC005091, AC004998, AC005332, AL050312, S70694, AC002429, AC002347, AC006076, AP000082, AC007750, Z84721, AL031005, AC006538, AB020865, AP000346, U14702, AC009225, U95742, AC002059, AC005771, AC004232, AE000662, U02063, AC003681, AC007226, AL109865, L48472, AL049871, Z83849, AC004028, M94081, AP000431, AC007681, AC005694, AC007917, X55922, AL049829, A1049759, AL050333, AL096702, AL121653, AC004236, AC003954, AC005237, AC005324, I51997, AC009247, AC005032, Z97183, AL022318, AL121658, AC005610, AC005913, AC004765, U80017, AC002984, AC004927, AL078614, AP000128, AP000206, U52112, AP000351, AC004638, AP000114, Z83840, AC005527, AC006537, X55926, AL034400, AC002312, AC004678, AL021918, AC002116,

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HLTGR28	8497	693990	1 - 616	15 - 630	H56364, D80166, D59619, D80210, D80240, D80212, D51799, D80219, D51423, D80253, D58283, D81030, D59859, D80193, D80195, D80391, D80188, D80227, D80196, D59889, D59927, D80043, D80269, D80038, D80366, D80024, D59610, C75259, C14014, D57483, D59275, D80022, C14429, D80241, D50979, T03269, D59467, D80045, D59502, AA305409, D50995, D80378, D80164, C14389, D59787, C14331, D80134, C15076, D51060, D80268, D81026, F13647, D80949, D51250, D81111, D58253, D80168, AW178893, D51022, AW179328, C14227, D52291, AW177440, D51079, AA305578, AW178775, AA514186, AW378532, D80251, D80248, AI910186, D80133, AW369651, D59695, AW178762, Z21582, C05695, AA514188, AW352158, AA285331, D80522, AW177501, AW177511, C14298, AW360811, D80064, AW352117, AI905856, AW176467, AW375405, AW177505, AW377671, D80132, C14407, D51097, D59373, AW366296, AW360844, AW360817, AW375406, D80439, AW378534, AW179332, AW378540, AW377672, AW179023, AW178905, D80247, D80302, AW352171, AW377676, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, AW360834, D51103, AW179020, AW360841, AA809122, AW178909, AW177456, AW179329, AW178980, AW177733, AW352174, AW378528, AW178908, AW178754, AW179018, D80157, T11417, D80014, AI557751, AW179004, AW179012, AW178914, AW378525, AW179220, D58246, AW367967, D51759, AW177722, AW177728, AW179009, AW178774, AW178911, AW378543, AW352163, D59503, C14077, T48593, AW178983, AW352120, D58101, T02974, D59653, AW178781, D59627, C06015, D51213, AW378539, AW177723, D45260, D80258, C14975, AW177508, T03116, H67866, AI535850, AI525923, H67854, AW378533, AW367950, C03092, AI557774, AW177734, AW177497, D51221, AW178986, D80228, AI525917, C14957,

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HLTGP47	8498	719975	1 - 433	15 - 447	AW393850, AA194696, and AW274557.
HLTGO89	8499	786674	1 - 594	15 - 608	R24848, and Z43303.
HLTGN92	8500	791185	1 - 358	15 - 372	R83296, H61528, R06428, and AA497003.
HLTGA40	8501	710728	1 - 401	15 - 415	H12953, AA436993, and AA426378.
HLTEZ30	8502	960911	1 - 338	15 - 352	T85564, T84409, AA361578, and R08443.
HLTEZ19	8503	671610	1 - 705	15 - 719	N98660, AI052555, AI033178, R16888, and AA437100.
HLTEX27	8504	927578	1 - 336	15 - 350	N95142.
HLTEV66	8505	772965	1 - 506	15 - 520	AA046570, AI912976, AI810637, AI400892, AI420896, AA317499, N44648, AI085349, T49602, AI825760, AI650498, AA046705, AA782778, H05628, and H17485.
HLTEP45	8506	723375	1 - 524	15 - 538	AA159675, and AC007068.
HLTEM25	8507	678685	1 - 508	15 - 522	R14032, AA825482, H95342, H70614, and AC004921.
HLTEG51	8508	494330	1 - 605	15 - 619	
HLTEG37	8509	417243	1 - 363	15 - 377	W40567, AL040311, AA905330, AA677615, AW205363, and D80009.
HLTEC83	8510	574630	1 - 213	15 - 227	
HLTEC35	8511	574632	1 - 266	15 - 280	
HLTEA20	8512	669900	1 - 582	15 - 596	AA007473, W93011, Z44985, AA430251, and N71668.
HLTDR43	8513	715529	1 - 664	15 - 678	AI953354, H16401, H00613, F09067, R82764, Z38624, and T17430.
HLTDJ17	8514	577379	1 - 657	15 - 671	W56369, H84793, AA913919, AA485021, AC007387, AC006543, and AC006544.
HLTDH96	8515	796560	1 - 275	15 - 289	N72412, and AI689177.
HLTDG59	8516	739699	1 - 340	15 - 354	T81367, AA372287, R50286, W30782, and AL137669.
HLTDG30	8517	693329	1 - 345	15 - 359	H85024.
HLTDB38	8518	456860	1 - 418	15 - 432	R95058, and R83706.
HLTCZ55	8519	732385	1 - 312	15 - 326	AA429774.
HLTCX39	8520	705648	1 - 432	15 - 446	AA157834, and AF095703.
HLTCI77	8521	772458	1 - 356	15 - 370	H84601, and AW379855.

HLTCR77	8522	772457	1 - 373	15 - 387	H84886.
HLTCR11	8523	967559	1 - 335	15 - 349	AA548022, and AC005740.
HLTCM59	8524	442563	1 - 1173	15 - 1187	AA633942.
HLTCI43	8525	715530	1 - 487	15 - 501	R12467, and AB020672.
HLTCI11	8526	967541	1 - 303	15 - 317	AI150147, and AI362692.
HLTCH41	8527	507362	1 - 353	15 - 367	R67858, and AC008033.
HLTBU47	8528	720662	1 - 342	15 - 356	H54393, AA476547, C02267, and AA445910.
HLTBU44	8529	522741	1 - 435	15 - 449	
HLTBS07	8530	954407	1 - 235	15 - 249	AI569948.
HLTBF58	8531	735194	1 - 364	15 - 378	H38593, AA361336, Z99571, and Z83820.
HLTBF56	8532	907024	1 - 513	15 - 527	AA521184, AA766096, AA743785, and AA361334.
HLTBA68	8533	753857	1 - 408	15 - 422	R18278, R17529, AA361271, AA019429, T66081, F12334, and AW025272.
HLTBA41	8534	712721	1 - 653	15 - 667	W78875, AA463793, R10150, AA814668, AA779112, R10157, AI351903, AA361232, and AC004554.
HLTBA35	8535	707243	1 - 366	15 - 380	AA150350, and AA361174.
HLTAM07	8536	954419	1 - 653	15 - 667	AA282169, AA987588, and AA360588.
HLTAK57	8537	735163	1 - 213	15 - 227	N45611, and AA360686.
HLTAA39	8538	710361	1 - 635	15 - 649	W55847, T65532, F11980, AA255754, AA360399, and N45924.
HLTAA27	8539	684649	1 - 377	15 - 391	R73095, R26859, R73096, AA360390, and R27089.
HLMTU01	8540	916641	1 - 484	15 - 498	AA828265, and AW262531.
HLMNQ18	8541	666544	1 - 475	15 - 489	AI076363, AA001640, and AA001228.
HLMMZ09	8542	575837	1 - 458	15 - 472	
HLMMT20	8543	830074	1 - 206	15 - 220	N55558, AA280889, AA095152, T90017, and AC008124.
HLMMR90	8544	575905	1 - 602	15 - 616	T39190, and T40464.
HLMMK61	8545	532605	1 - 492	15 - 506	
HLMMK50	8546	724485	1 - 196	15 - 210	W42656, and AA077151.
HLMMF94	8547	811320	1 - 372	15 - 386	R22164, AI248937, AI084822, AI249135, and AA897402.
HLMMF01	8548	916816	1 - 496	15 - 510	AA837202, and Z82189.
HLMME43	8549	714439	1 - 619	15 - 633	AA716681, AI361749, N77694, H65481, AA005280, H64888, AA005196, N58327, AA747865, R94521, AA677973, AI032897, R93670, H73820, H54422, and AC012627.
HLMIY59	8550	878870	1 - 342	15 - 356	AL120141, AF111168, AC005081, AL109798, AC004883, AL022476, AC006441, AC005071, AC005796, AC009263, AC002369, AL049569, AC006064, AL050341, Z98946, AC002430, U62293, AC006312, AL109628, AC006211, AC005189, AC005736, AC007384, AC006023, M29930, AC005057, AC004638, Z81364, AP000689, M29929, AP000248, AC005317, Z68756, AL023553, AC002400, AC004019, AL031289, AC007151, AL031686, AC007011, AP001053, AC004990, AC005225, AC005049, Z93930, AC005562, AP000210, AC005089, AC005332,

						AL121658, AC004477, AC004491, AC004983, AF053356, AC000052, AC005015, AC000025, AF207550, Z81365, AC003029, AC002551, AC004656, U91318, AC003025, AC004686, AF088219, AL049874, AL034420, AC006275, AC004033, AL009181, AL096678, AC002992, AC004797, AL121653, Z99716, AC005921, AL133485, AL008582, Z93020, AP001054, AL031432, and AF117829.
HLMIG57	8551	835799	1 - 473	15 - 487		R81607, and U34932.
HLMHW80	8552	775382	1 - 432	15 - 446		H71175.
HLMHT61	8553	742044	1 - 445	15 - 459		R70530, and AC006392.
HLMHT49	8554	722191	1 - 448	15 - 462		T71093, T71030, AC004033, and AC007050.
HLMHL66	8555	910804	1 - 353	15 - 367		AA313128.
HLMHL03	8556	856859	1 - 171	15 - 185		T49381.
HLMFU46	8557	718075	1 - 430	15 - 444		AA033893.
HLMFL88	8558	574812	1 - 744	15 - 758		AA884878.
HLMFG79	8559	974552	1 - 220	15 - 234		
HLMFE91	8560	531212	1 - 439	15 - 453		AA229869, AA368329, H48017, AI065031, AL048002, H50031, AI348597, AA056206, H16875, AA704806, AI982994, AA374797, AI251809, H44137, AA303289, T61362, R79396, AI591334, F23268, AA985145, AI114755, AA322161, AW377926, H73306, AI246386, AW377843, AW377863, AW193523, AI871691, AA361244, AA833828, AA640823, AW190277, AA588099, AA526337, AA424280, AI254153, AI252828, N71545, H91047, AI571094, AW089016, F26285, AI281622, AA670108, T54173, M78137, T40210, W27084, AL047666, AI476460, AW377907, AW377921, AI954464, AW377912, AA205911, AA071151, AI811319, AI337065, AA218835, H86579, AI627868, AW390278, N30650, AW081503, AW390250, AI254937, AI816537, AA425924, AA325466, AA310354, AI815583, AI130709, AI536858, AI537995, AW071109, AA613189, AA018923, AA012829, N47820, AW148775, AI814682, AI291439, AA351868, AA836097, AI376454, AI298079, N76059, AA831997, AI018029, AI909640, M77900, AW390555, AA298783, F31634, AA584756, AW023376, AI831172, AW341955, AI475758, AI270149, AA424008, AW247089, AA287502, AA550989, R70884, AA320095, C06028, AW029626, AI888050, AI251380, AW377894, AA181479, N91747, AI251949, AI252207, T90931, AI817108, R48131, AI160875, AI024439, AI251996, AI252979, AI254626, AI284684, AW272640, AA668220, AI499376, AI251353, AA515723, R70883, AI251298, AI255012, AW438551, AA565911, AI254440, AW377961, T48770, AW377862, AI251598, AA564753, AA700664, AI252933, AI469468, AA085554, AI223508, AI254658, AW440451, AA985194, H57324, AI241970, AW086319, AA282530, AI819391, AI627917, AI246059, AI255003, AA372389, AI254673, AA650455, H30595, W38437, AW086334, N92697, H44537, AA071045, AC006211, Z82176, AL035551, AC004671, AC004941, U62317, AL031775, U66060, U66061, AF075037, AC000353, AC005014, AB000462, Z68279, AP000689, AC007425, AL031120, AB003151, AC004216, AC004033, AC006948, AC007731, AC005500, AP000532, AC004611,

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HLMFE79	8561	531213	1 - 388	15 - 402	
HLMFE17	8562	531218	1 - 137	15 - 151	
HLMFD62	8563	754076	1 - 322	15 - 336	AI797595, AW007013, AI498775, AI498624, H09241, AA935139, AA948609, R44566, and Z39116.
HLM DX01	8564	921546	1 - 401	15 - 415	AA232886, and T81241.
HLM DH08	8565	960055	1 - 814	15 - 828	AI423013, AW058211, AA700642, AW027855, AI709117, AI673385, AW339470, AI161207, AA694181, AI276286, AI216865, H54304, H54097, T99459, T98863, AA669188, AW386076, and AB033044.
HLM DC26	8566	684911	1 - 452	15 - 466	N23041, AW380413, AA078090, AL048960, N28704, AC005038, AF030453, and AJ007798.
HLM CL59	8567	529908	1 - 586	15 - 600	AA742279, N80170, W03637, and AL031289.

HLMCJ55	8568	741635	1 - 425	15 - 439	N77018, AL1916826, AW236861, AA429686, and AL623392.
HLMBX91	8569	879359	1 - 846	15 - 860	AA515440, AA601425, AW089625, AA659170, AA620554, T47745, AA516058, AI056526, AW102811, AL040382, T06754, AI110760, AA593471, AA523833, AA483204, AW440545, AI243789, AA961035, AA502104, AA633892, AW263415, AA640277, AF190465, U52112, AC005412, AC004019, AC003684, AL133163, AC004832, AC004223, AC007216, AC005696, U95742, AC004815, AC005231, AL031283, AC004966, AC005015, AC003101, AC004383, AC003695, Z97054, AC005081, AF109907, AP000045, AC005808, AP000557, AC007546, AC009516, AC008101, AF001549, AC002470, AF196779, AL021391, AC002425, AC007308, AL031311, AC009247, AC007055, AC002350, AL049761, AC007686, AC002312, AF196969, AC005071, Z98941, AC007666, AL117258, AC007225, AC004841, AC008079, Z83844, AL035413, AC004491, AC007011, AL049780, AC006530, AC002558, AC006511, AC003043, AC002477, AF165926, AC005031, Z84466, AC005529, AC002070, AL080243, Z85986, AC002565, AF053356, AC003070, AL022476, AL049709, U80017, AC002300, AC003037, AC005295, AC007731, AC004382, AC006088, AF038458, AL035587, AC005041, AL035659, AC004983, AL049869, AL035458, AP000555, AC005291, AC005102, AJ003147, AC005488, AC006312, AC007676, AF134726, AC002996, AC007151, AC004922, AC003982, AC007227, AC006241, AL096702, AC005520, AC005500, L78833, AC008044, AC002543, AC004878, AC000353, AC004895, AL133353, AL121652, AP000704, AC002375, AC004985, AL109758, AL035455, AC002492, AP000134, AP000212, AC004596, AC004236, AL021977, AL022316, AC005280, AC002476, AC000025, AL031276, AC004797, AC002394, AC005005, AC006064, AC006285, U91323, AC008115, AC005399, AC005519, AL049829, AL008718, AC004884, AF217403, AC005722, AC002301, AL139054, AF111168, AL049776, AL020997, AC005837, AC005839, AL023803, AL033392, AL109984, AC007537, AC005920, AC005480, AP000553, AC008372, AC005702, AC006449, AL034420, U47924, AC008116, AL049540, AC004659, AC007298, AC004887, AC005902, AP000030, AC005736, Z99128, AC006512, AC007226, AP000088, AL121655, AC007421, AL034549, AC005921, AC006480, AC005899, AC000052, AC002302, AP000011, AL035450, AC004685, AC005695, AC002365, AC016025, AB003151, AL035681, AC005778, AC004967, AC006132, AC006487, AL121658, AC006430, AC007919, AC006014, AC004253, AC005225, AL049697, AC004000, AP000115, AC002045, AC006023, AP000556, AL031681, AC004821, AP000039, AC004645, AC004858, AC006111, AC006001, Z82189, AP000501, AL008726, AP000047, AC004150, AL021155, AP000345, AL132712, Z97056, AC005821, U91326, AC005209, AC016830, AC007371, AC005004, AL031670, AC004882, AL096701, AL031289, AL121825, AL050318, AC007387, AP000065, AF047825, AC007688, AL121603, AC006071, AC005585, AL023807, AC005180, AC004149, AC006121, AC005562, AC005940, and AP000248.
HLMBQ54	8570	730952	1 - 454	15 - 468	H72138, and AA594731.
HLMBQ48	8571	560848	1 - 400	15 - 414	AA505108, and N72195.

HLMBN04	8572	615620	1 - 340	15 - 354	T77272, F13388, and AF052103.
HLMAV56	8573	733708	1 - 540	15 - 554	AA234263, and AA262980.
HLMAI82	8574	523694	1 - 100	15 - 114	
HLMAE86	8575	852563	1 - 543	15 - 557	AA056759, AI870884, AI184256, AA287354, AL048819, AA780049, AA658119, AW083033, AW131126, AA812201, AA523491, AI955653, AA102847, AI420177, AI658829, AI860578, AA058437, AW439401, AA700175, AA527995, AW439499, AI299102, AI471747, AA102846, AI767122, AA884538, AI859388, AI813491, AA004770, AA973515, AI016255, AA452810, H22945, AI686317, AW263434, AA074105, AA452925, H09535, N78501, AI865742, AA847674, AI916285, AA310886, AI263292, R41868, AI868055, AA809214, AW439033, AA994606, AA682833, AA004702, AA287405, and AI597574.
HLLCD85	8576	783454	1 - 515	15 - 529	AI478306, AI161172, AA554537, W68698, AI380170, AI085355, AI796561, AI571389, T70262, AA188734, N92493, AW385352, AI216082, AA188572, AI141460, AI357387, AA489805, AA398636, AF108460, AF108461, AC020663, AF108455, and AF108454.
HLKDC76	8577	953502	1 - 1087	15 - 1101	AA161515, AW250345, AW364752, AW248279, AA173349, AA410730, T09386, N28872, AA281341, N33896, AA312252, AA160094, T08124, Z45256, F07609, AA452741, R69813, AA380203, AA256741, N57212, Z43138, AI017337, F07095, T32695, W26853, T35905, AW204528, R14455, AI948689, AA682474, AI378863, AA378888, W27662, AI935695, AI928405, and AA910271.
HLKDB78	8578	773172	1 - 459	15 - 473	AW298414, N39216, AW004711, AW051893, AI375134, AI917477, AI652977, AI291261, AW002993, AW003527, AI016680, AI676093, AA668759, R49090, AI351891, AI498667, AI203099, AA906803, AI356617, AI950955, Z40923, AI783643, AI418750, AI189132, AF069532, and Y16521.
HLKDB02	8579	918870	1 - 458	15 - 472	T55231.
HLEAN30	8580	843294	1 - 442	15 - 456	
HLDA67	8581	887375	1 - 619	15 - 633	
HKBBV11	8582	965170	1 - 528	15 - 542	AA249141, AA317762, AA323439, R68885, AA657752, AA845804, AA443184, AI138096, AC006998, AC005406, AL022396, AC003029, AC004381, AP000008, AP000704, AL021367, AL031595, AC004106, AC008012, AC004087, AP000503, AF134726, AL034421, AL031274, AC002528, AC006536, AC006077, AL133246, AL034371, AI031733, X54486, AL031650, AC000052, AC004033, AC007731, AC005500, AL034345, AL022098, AC004832, AL079299, M26434, AC004231, AC004383, AC005243, AF099810, AC003101, AC020663, AC005354, AC005722, and AC005261.
HKBBP05	8583	928316	1 - 539	15 - 553	AI436366, and H81947.
HKBAL06	8584	934160	1 - 527	15 - 541	AI039905, AA826224, and AA911597.
HKBAJ12	8585	969644	1 - 648	15 - 662	AA742235, AA742234, AA769592, AA828385, and AA804905.
HKBAB02	8586	918568	1 - 584	15 - 598	AA524543, H28219, AA482728, and AC006486.

HJUBA59	8587	888006	1 - 631	15 - 645	AI971330, AI266060, AI870369, AA025208, N48096, AI673475, AW058505, AI864572, R08870, R38658, F10568, R08976, AI887853, AI400250, AI810202, and AA701175.
HJTRB51	8588	470587	1 - 486	15 - 500	AA648882, and AA357310.
HJPDK80	8589	418622	1 - 902	15 - 916	AA210877, AI797681, AI970134, W86482, AA070750, AA214621, AA977114, W86632, AA252120, AA902411, AA742986, AA242915, AA579700, AI468181, AA376316, AW015483, AA811628, AI928274, AI799954, AA040813, AA213789, and AF001549.
HJPDK57	8590	768274	1 - 686	15 - 700	
HJPDII16	8591	518105	1 - 343	15 - 357	H29753, AA011703, AI341972, AA477868, AI813605, AA581094, AW027687, AW193238, AW193131, AA101402, AI565781, AI808069, AI475759, AI298622, AI356540, AI148214, AA156318, R50132, AA516279, AI347078, AI161316, W04405, AI635124, AA853039, R22251, N89768, AI248905, AA873149, AI149506, AW088640, AA701646, R39722, H42776, N95630, AI567992, AI591326, AI741983, R70062, W29112, R31096, AA399446, AW405653, AA011503, AW003643, AA628885, AA876220, AW262885, H54242, AW338832, AA353094, AI743581, AA453197, AI188538, W69801, AA282034, AA513733, AA374524, AI088462, H97805, W67620, AW068409, AW368994, AA034935, AA781354, AI933502, W23274, AW374523, R74587, H96595, AW374544, AA477759, AI052491, AA707033, AW051399, AW075651, R92048, AI583545, AI418411, AI888034, AI911293, AW167110, AI735231, AW167100, AI087842, R70016, AA430524, AA535808, H10643, AI828406, AI625243, AA355826, AI921041, AI375407, AW371892, AA775632, AI034439, AA011693, AI572578, AA861696, AI937166, AW075601, AA740399, AI720285, AW292885, H96596, AI525221, and AL035413.
HJPD23	8592	574115	1 - 231	15 - 245	
HJPD82	8593	857401	1 - 990	15 - 1004	AA455589, AI091855, AA988340, AA161359, H42568, R07607, AI015867, R07600, R07602, AA441957, AI936472, and AI291961.
HJPCW09	8594	536677	1 - 234	15 - 248	Z44259, H07973, AB015348, AL137622, AL133072, AL133048, AL133040, AJ132440, AI243706, and AF087481.
HJPCV54	8595	733607	1 - 575	15 - 589	AA402378, AA464262, AI885402, AI829944, AI921923, AW008540, AI074307, AI005213, AI479060, AI091416, AI684266, AW410641, AI924538, AW337968, AW170092, AW028819, AW242087, AA873160, AI362816, AA857987, AA745265, AI991184, AI222764, AI972124, AI161220, AI538743, AA609827, AI139793, AI336176, AI075402, AI829318, AA443894, AI609956, AI598268, AW194155, AI446095, AI096558, AA838514, AA431854, AA873436, AA864636, AW387090, AI241070, W79486, AA704924, AA872815, AI086820, AI139048, AI151109, AA937584, AI028016, AI805600, AI434504, AA770528, AI619841, AI872263, AA394128, AI090476, AW117881, AI348212, AI027063, AI355882, AI074246, AA488987, AI469710, AA576443, AI304813, AA832041, AI077555, W81550, AA460236, AA536177, AI351451, AI187174, AI368869, AA916469, AI635832, AA488766, F37944, AA724420, AI187204, AI359194, AW387107, N95198, AI827052, AI961866, AA632947, AI346208, AI285018, AW169451, AA431853, AI266343, AA897757, N54144, W52694, AW105713,

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HJPCS54	8596	871807	1 - 734	15 - 748	N95260, and AI668689.
HJPBP22	8597	577455	1 - 133	15 - 147	AI863962, H87372, AF005418, AFI15769, Y12657, and AF199462.
HJPBA04	8598	615585	1 - 472	15 - 486	AA136250, AI024917, AI017124, and AA730431.
HJPAZ91	8599	882668	1 - 523	15 - 537	N32734, R67770, AA057568, AA326169, AA322393, R49744, N23508, Z46028, AI360953, R35017, and AFI51800.
HJPAY56	8600	909242	1 - 221	15 - 235	AA205091, and AC003002.
HJPAX11	8601	967599	1 - 543	15 - 557	AI985517, and H75687.
HJPAT79	8602	781697	1 - 311	15 - 325	AA278629, AA215509, and AA031467.
HJPAG38	8603	709103	1 - 425	15 - 439	N23069, N25298, N25305, and AA356922.
HJPAAG0	8604	586675	1 - 523	15 - 537	AA044789, AW371891, AA297755, AA044810, AI150008, AA993400, and AI420327.
HJKSC56	8605	578366	1 - 459	15 - 473	
HJBDM21	8606	793381	1 - 437	15 - 451	H48668, H48397, R98819, H48501, AA306570, AI431664, T89386, and AB011178.
HJBDL70	8607	757378	1 - 697	15 - 711	AA306768, T75462, R13593, F13160, AA479890, W22183, C14389, D80022, AA305578, D80043, D59610, C14331, D58283, D80241, AW177440, D50995, D51423, D59467, D80195, D59859, D51799, D80166, D80227, D59619, D51022, D80210, D80391, D80164, D59275, D80240, D80253, D59787, D59502, D81030, D80212, D80196, D80188, AW177501, D80219, AW177511, D59927, C15076, D80269, D80024, D57483, D80038, D80366, C14429, AA305409, D50979, D59889, D80193, AA514188, D80378, D51060, D80268, AW178893, T03269, AW352117, D80045, D81026, D80248, D80522, AW179328, C75259, C14014, D80251, AW378532, AA514186, D80133, AW360811, AW178775, D58253, AW377671, D51250, AW178762, AW352158, C05695, AW375405, AW360844, D80134, D80132, AW179332, AW177505, AW366296, AW360817, AW375406, D80247, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, D80302, AW352170, AW179024, D59373, D80168, AW377676, AW352120, F13647, AW360841, AW179020, AW178909, AW177456, D80439, AW178906, AW177731, AW178907, AW179019, AW179018, C14407, AW178971, D51079, AW378540, C14227, T11417, D81111, AI905856, AW178980, AW179004, C14298, AW179329,

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HJBDG36	8608	607769	1 - 593	15 - 607	AI310670, AI754257, AI310787, AI521525, AW020150, AL036334, AA493808, AW275432, AI065031, AI797998, AA557945, AA558488, AW020094, AI909130, AW238341, AI923052, AW021399, AI349130, AA642809, AW265468, AI890283, AA669238, AA659923, AW272815, AA846923, AW265006, AI800426, AI889995, AI336771, AL042667, AL042670, AA904275, AA602971, AI744199, AL121039, AI926102, AI702049, AA584360, AW270468, AA577706, H77492, AA598443, AW075979, AW151247, AI801563, AA610381, AI745116, AA410788, AA676592, AW265201, AW008217, AA083003, AA601376, AW328027, AI755214, AL041375, AW072963, AA629540, AI299891, T74524, AI566408, AW148821, AI345566, AI754105, AA653291, AL044701, AW169183, AL079734, AW272389, AW129061, AW026305, H71678, AA804726, AI049643, AI421950, AI419337, AA507499, AW021917, AI828721, AA774041, AI984168, AA525253, AI123488, AI792092, AI821056, AI821805, AW262946, AA526542, AA135761, AA535216, AA013168, AL138299, AA502991, AA420723, AW410844, AA019973, R99253, AI537368, AA601290, AL118598, AI299442, AA584241, AI904840, AA838120, AA524604, AA525807, AA558402, AL135783, AP000115, AP000047, AC005484, AC005911, AC006449, AL109758, AL139054, AC007283, AC005841, AC005529, AP000555, AC005244, AC004009, Z97184, Y10196, AC004841, AC000094, AL031346, AC005527, AC003108, AC002357, AF134726, AP000503, AF111168, Z98941, AL109627, AC004876, Y14768, AC012039, AC005332, AP000505, AC000025, AC005921, AP000301, AE000658, AL136295, Z84467, AL096791, AL021391, Z98200, AL049697, AC005971, AC007685, Z98946, AC007242,

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HJDBC63	8609	745286	1 - 411	15 - 425	AA112809, AA306231, AA307255, AA668156, AI399709, and AB032255.
HJBDA11	8610	967480	1 - 889	15 - 903	AA306061, AI096918, AI264057, AI288905, AA888803, AI379591, AI473353, AI582909, and AA888914.
HJBCZ05	8611	925805	1 - 855	15 - 869	AA312842, AA305846, AA935807, AA470048, AI800098, AA983700, AA983708, AA737820, AA922195, AA416876, AW194609, AW376741, AW363086, AW197591, AA442519, AI185740, AI282285, AI954659, N47199, AA773604, AA397353, AA640513, AA176983, AI149726, AI479754, AI654305, AA837000, AA744021, H73550, AI792377, R97239, AL120004, AA318894, AA516193, AA279385, AA515733, AI805439, AA209208, AA533054, AA669560, T26476, AI343169, AA445908, H94751, AA070456, AI697425, AA862953, AW150387, AA215470, AI718462, AI866580, AA767983, AI683116, AL040374, AA588353, AA078469, T94072, AA325393, T94140, AA669185, AA084230, AI654520, AW029515, AA504951,

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HJBCM55	8612	732411	1 - 463	15 - 477	AA312262, T83797, AA161328, AA932331, AA679030, AI992290, AI827943, AA431880, AI802124, AI827814, AA431881, AA878982, AA569021, AA862891, AI394363, and Z56903.
HJBBG54	8613	728810	1 - 591	15 - 605	AA278413, AA232658, AA234388, and AA356464.
HJBBF02	8614	921242	1 - 1153	15 - 1167	T64492, H80456, AA102097, T64635, W24542, AA356419, and AI650492.
HJBBE51	8615	725948	1 - 479	15 - 493	N48203, AI718419, AI825815, AA779543, AA356389, AI089156, and AA970766.
HJBBE07	8616	954376	1 - 459	15 - 473	AA069386, and AA356239.
HJBBD59	8617	739633	1 - 506	15 - 520	H10612, AA356365, and R38602.
HJBAP94	8618	796835	1 - 526	15 - 540	AA099056, N76005, AA355858, AA099057, and AA339543.
HJACI60	8619	577525	1 - 553	15 - 567	N23583, AA311407, and R70050.
HJACH13	8620	660943	1 - 362	15 - 376	AI675755, AA927858, AA861302, AA766862, AA311232, AI304365, AI004795, AA759118, AW271713, AI052339, AA853966, R37476, Z40307, AW269006, R41401, and AB002296.
HJABZ11	8621	967665	1 - 436	15 - 450	AA445925, AA310604, AA452033, AW275492, and AW026774.
HJABX39	8622	709556	1 - 686	15 - 700	AI916225, AA310505, W79834, and W79117.

HJABQ75	8623	567249	1 - 1088	15 - 1102	AA309844, AL037632, AL040921, AA601355, AL138265, AI608771, AL135377, AA526787, AI963600, AW131249, AA737309, AA577824, AI685198, AI357778, AI110760, AL120269, AA837677, AI924251, AA507168, U51704, AL138455, AI951863, AW188427, AW088224, AL045053, AW055226, AL037683, AI334443, AA587604, AI859742, AA586458, AA484696, AI053790, AA837740, AA838140, AW162887, AI567674, AW406447, AI963714, AL038705, AI929738, AA456937, AW102811, AA223932, AI654588, AA640277, AL042906, AW085751, AW303196, AA601326, AI963221, AI471543, AW301350, AI284640, AW089927, AA632281, AI204309, AL041690, AA587256, AL046409, AI016704, AA577906, F28204, AI625244, AI133164, AI696962, AW408643, AW274349, AL042905, AA723287, AW021583, AI270117, AI872227, AW072923, AI014358, AA121815, AW130036, AA722198, Z78385, AL120483, AA487872, AA743907, AI246796, AA578832, AI679294, AI110770, T63272, AW008212, AW189303, AL048969, AI445582, AW069769, AA101689, AW407578, AW276435, AA743960, AW089625, AI431303, AI305766, AW247819, AW069819, AI687343, AI375542, AW440545, AA490183, AW193265, AW243793, AL042310, AI499134, AW103509, AW265385, AA078849, AW419262, AI972203, AI679871, AW245747, AA665449, AI610840, AI963720, AA984166, AW406162, AA603445, AA908687, AA812139, AL042853, AA055169, AA643454, AA643457, AI623720, AL046205, AC007191, AC002430, AC009516, AC007384, AL049766, AC005500, AL022163, AL034423, U96629, AP000552, AF053356, AC004491, AL121658, AC004987, AC007731, AL022315, Z98044, AP001053, AC004966, AJ246003, AC005527, AC002059, AL031281, AC004913, AF190465, AC005695, AP000504, AC006511, AC004686, AL021453, AC009247, AC007371, AC006285, AC005736, AP000692, AC004832, AC005324, AL135744, AC005914, AL049569, AC004638, AL031311, AC007308, U52112, AC002310, AL096776, AL022322, AC020663, AC002470, AC000026, AC005696, AC005409, AL133245, AL022302, AC005529, AC005015, AC005089, AC004963, AC004033, AB023049, Z83844, AC004895, AC006449, AC000025, AL031283, AC006013, AC004690, AL022238, AL035659, AC005632, AC005081, AL031577, AC007993, AL121653, AC002544, AC005531, AC005520, AC005776, AP000555, AC005180, AL049776, AF129756, AL022323, Z85987, AC005261, AB003151, AC005295, AC004253, AC006111, U91326, AL132987, AF111168, AC004814, AC005829, AC003007, AC007057, AC016025, AC006581, AC004150, AC004805, AL031680, AL031432, AC004019, AC007541, AC002045, AL031662, AC000353, AC002565, AC005004, AC004650, AC005913, AF111167, AC004878, U85195, AL133243, AC002984, AL096701, AL023553, AC009509, AF045555, AC007536, AP000556, AC002476, AC006501, AC005057, AL022316, U62317, AC005387, U91321, AC004821, AC003101, AL024498, AC000134, U80017, D87675, AC006430, AC002115, AC000035, AC005940, Z98742, AL133163, AE000658, AC006312, AC004477, AC004596, AL008719, AC002350, AC003104, AC007676, AL049830, AF196969, AF196779, AL022721, AC016830, AC005920, AC005332, AC005740, AC004217, AP000115, Z86090, AL023575, AC007227, AC006195, AC006441, AC004583, AL109798, Z82244, Z98752,
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HJABK84	8624	783237	1 - 657	15 - 671	N26671, AI826768, N39824, N22700, AW452772, N31174, F05933, AI690795, AA852538, AA309729, AI274627, AW166599, AW195751, and AA300297.
HJABK16	8625	667399	1 - 786	15 - 800	AA210697, AA309665, AA210819, D80022, D80195, D80227, D81026, D80248, D80439, D80269, D80038, D80164, D59502, C14389, D80045, AA514188, D59467, D59275, D80212, C15076, D80166, AA305409, D59619, D80210, D80240, D58283, D80193, D59859, D80391, C14331, D59787, D51423, D51799, D80253, D80043, D81030, D80302, AA305578, D80219, D80196, D50979, D80024, D80366, D80188, D80522, D59927, C14014, D57483, D59610, D80378, D51060, D80133, D51022, D59889, AW377676, AA514186, D50995, AW360811, AW377671, C14429, AW177440, D80268, D80251, D80241, AW178893, D51759, T03269, AW375405, AW360844, D80247, D80949, AW178906, AW179328, AW366296, AW177501, AW177511, AW360817, C75259, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, AW378532, D51103, D80157, D80132, AW177505, C05695, AW360841, D59373, AW178775, AW178909, AW352170, AW177731, AW178907, AW178762, AW178754, AW179019, AW179018, AW179024, AW352117, D51250, D80134, AW179020, C06015, D58253, AW177456, AW367967, AW179329, AW369651, AW178980, AW177733, AW378528, AW178908, AW352158, AW178971, D59695, AW176467, AW178983, AW352174, AW179017, AW179004, AW179009, T48593, AW179012, AW178914, AW378543, AW378525, AW352163, D59503, D80168, F13647, T11417, AW178774, D59653, D59627, AW352120, D80258, T03116, AW178911, AW177722, D58246, AI910186, AW177728, C14227, AW360834, D58101, D80064, H67866, AI525923, C14298, D45260, AI905856, D81111, C14407, C14077, AW178781, AI525227, AW378540, AW367950, AA809122, C03092, H67854, D59317, AW177723, AW177734, D51213, AW178986, AI535850, D45273, AI535686, C14344, Z21582, AI525917, AW177508, D80014, D59551, C14973, D59474, AW378533, D51221, AW177497, D60214, C14046, AI525920, D60010, T03048, AI525925, AA514184, AA285331, AI525215, D51097, AI557774, H67858, C14957, AI557751, AW378539, AI525242, AI525235, AW179013, AI525237, C13958, AW178759, AI525912, AW378542, D51066, C16955, C05763, Z33452, T02974,

					AI52522, D59976, Z30160, AW360855, T02868, AC002302, AR018138, A84916, AB028859, AJ132110, A62300, A62298, AR008278, AF058696, A82595, A67220, AR060385, AB002449, Y12724, X67155, Y17188, A94995, D26022, A25909, D89785, A78862, D34614, AR008443, AR060138, D88547, I50126, I50132, I50128, I50133, I82448, A45456, X82626, AR066488, AR016514, I14842, A26615, AR052274, AR025207, Y09669, A43192, A43190, AR038669, AR066487, A30438, AR066490, AR054175, I18367, D50010, Y17187, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, AB012117, D13509, I79511, A64136, A68321, AR060133, X68127, A85396, D88507, AR066482, A44171, A85477, I19525, A86792, X72378, AR060382, X93549, U79457, AF123263, AR032065, and AR008382.
HJABB93	8626	791435	1 - 716	15 - 730	RI5729, AA354908, T70813, and N46535.
HJAAZ32	8627	699727	1 - 371	15 - 385	H72083, AA452004, AA354988, AW293726, and AL049869.
HJAAV85	8628	783412	1 - 215	15 - 229	AA354831, AI708444, and AA745017.
HJAAR02	8629	921105	1 - 279	15 - 293	AA354395, AA903166, and Y12377.
HJAAO07	8630	954263	1 - 447	15 - 461	AA594156, AA354429, and U73641.
HJAAC22	8631	779388	1 - 449	15 - 463	R20249, AA353931, AA369964, R15221, AA206267, AA035045, H84119, AA375219, AI907126, W28121, and AC005037.
HJAAA83	8632	928841	1 - 660	15 - 674	AA524524, AW026098, AW027704, AI498221, AI418388, AA255552, AA679996, AW295864, AA255570, AA353905, AI683939, AA064723, AA065071, AI347410, AL096755, and U51559.
HILBQ12	8633	971556	1 - 346	15 - 360	AA352670, AA766931, AA814879, AA642419, AW298724, AI693480, AA747930, and AL023807.
HILBC52	8634	906873	1 - 320	15 - 334	H47493, R97184, AA352099, and Z94721.
HILBC17	8635	667204	1 - 465	15 - 479	AA258568, AA464583, AA436480, AA352105, AA954703, AA639707, AA234276, AA436533, AA258487, AI675334, and AW292522.
HHEZZ74	8636	934486	1 - 1616	15 - 1630	AA885355, AA825637, AI537418, AW263128, AI739203, N40091, AA053510, AA917424, AI357099, AA151745, AW373447, AA809481, AI907261, AF181985, AF179867, and AF161373.
HHEZT12	8637	969437	1 - 438	15 - 452	AI857340, and AC004702.
HHEZO92	8638	942859	1 - 881	15 - 895	AI680404, AA456171, AI590551, AI953875, AI082560, AI084107, AI243212, AA279972, AI473813, AI339075, AW418909, AI245568, AA443105, AI078761, T78012, AW243617, AW139270, AA298137, AI274709, AW244160, AA318651, AA593768, T78174, AA630836, AI198099, AI934002, AI392724, AI141198, and AI341327.
HHEZN61	8639	973136	1 - 698	15 - 712	
HHEYE64	8640	973232	1 - 661	15 - 675	AW392670, Z99396, AL119444, AL119319, AL119363, U46341, AL119457, AL119324, AW372827, AW384394, U46351, U46349, AL119497, AW363220, AL119484, AL119391, AL119355, AL119483, U46350, U46347, AL119443, AL119341, AL119439, AL119522, AL119396, U46346, AL119335, AL134920, AL042614, AL119418, AL037205, AL134902, AL134538, AL043019, AL042975, AL134527, AL134536, AL119399, AL119496, AL134531,

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HHEXO05	8641	930794	1 - 1666	15 - 1680	AW361847, H10130, H20868, AI480290, AI193053, R70273, R52259, AI459029, H09428, AA453532, AI907803, AI494444, W24783, AI143500, AL122091, and R26514.
HHEWX08	8642	974405	1 - 516	15 - 530	AW148792, AW276827, AI687260, AI613280, AA579366, AI860013, AI364020, AA577906, AI350211, AW193265, AI364026, AW438643, AA483771, AW088058, AA713891, AL036037, AA189117, AI744995, AI431303, AI284640, AI281881, AI270117, AA658362, AI688846, AI061186, AA654761, AA599920, AW193432, AI375710, AI619997, AA613232, AI754658, AA584167, AA490183, AA084725, AW029038, AI962050, AW303196, AW274349, AW274346, AA635442, AL046409, AI355224, AI801591, AI583283, AI345654, AA526758, AI289067, AW301350, AA938105, AL121235, AI929531, AI339850, AA594145, AW408707, AW050498, AI341664, AA808877, AA324164, AA525824, AW419262, AA908468, AA376519, AA664015, AI281903, AI379719, AI287451, AA716348, AA126777, AW406447, AW261871, AA071393, AL134972, AI798489, AA719805, AI382614, AA446657, AA719292, AA526779, AA488746, AI061143, AA601876, AI017024, AI439210, AA350859, F17891, AW089322, AW338086, AI334435, AA167659, AW238542, AI754955, AA346454, AI696962, AA551503, N94233, AA351056, AA577959, AW302450, M86143, AA973803, AA639248, AA586458, AA613227, AA632868, AI358571, AI678316, N29948, AI341548, AW276701, AI040313, AI910609, AA744031, AW072587, AI002834, AA568778, AL044940, AA621858, AW341900, AW073470, AA744077, AA504871, H72402, AI432270, AA776258, AW162049, H85382, AL041706, AA846952, AI370878, AA095074, AA758934, F33795, AA653221, AI986251, AA813902, N29941, AA593247, AL022165, AC002451, AC020663, AP000355, AC005015, AP000328, AC005730, AC003016, AP000512, AP000170, AP000055, AP000123, AC006975, AC004447, AC008372, AC006285, AC002045, AC002549, AC002476, Z97195, AL031584, AC005154, AC005057, AL121655, AL121603, AC004953, AC005074, AC005242, AC006275, AC007030, AC005632, AC002310, AL049643, AC005527, AL080242, AC005694, AC007877, AC004755, AL078463, AF196970, AL078477, AC005740, AC005358, AC007011, AC002307, AC005529, AL049795, AL023280, AC004098, AC005839, AC004947, AF123462, Z97196, AL050308, U72787, U66059, AB020872, AC004381, AC003007, AC004890, AC006333, AC000025, AC004152, AC002077, AL008716, AC016025, U57005, AC004519, AL031575, AC005678, AF003627, AC005746, AL035697, U07562, AL049845, AC004865, AC006040, AL049776, Z98051, Z84480, AC006208, AC005412, AL049742, Z81364, AC012599, AC007363, AC008115, AC006017, AL022311, AC005829, AL031650, AL110292, Z73358, Z82097, AL096791, AF188025, AL008709, AL031054, AC004686, AC004699, AC004477, AC005909, AC006211, AC004960, AC002308, AC004859, AC007878, AC002543, AC002412, AC002430, AL021940, AC004855, AL022323, AP000117, AL109623, AC005150, AF001549, AC006116, Z98304,

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HHEWX06	8643	933879	1 - 256	15 - 270	AL570927, N53790, and AI003414.
HHEWT49	8644	973142	1 - 407	15 - 421	AC005803.
HHEWS01	8645	914746	1 - 604	15 - 618	AI051623.
HHEWQ10	8646	963039	1 - 259	15 - 273	AI021958, N75976, and AC005572.
HHEWM53	8647	973150	1 - 488	15 - 502	
HHEWGM6	8648	933874	1 - 308	15 - 322	H71868.
HHEVZ06	8649	933891	1 - 487	15 - 501	H80314.
HHEUW76	8650	906956	1 - 532	15 - 546	R21123.
HHEUP68	8651	973215	1 - 687	15 - 701	AW392670, AL119324, AL119319, AL037205, AL119335, AL119457, U46351, AW372827, Z99396, AW384394, AW363220, AL119484, AL119391, U46350, U46347, AL119401, AL119439, U46346, AL119497, AL119355, AL119418, AL119363, U46349, AL119443, AL119444, U46341, AL119483, AL119522, AL134525, AL134536, AL119341, AI142131, AL119396, AL134902, AL119399, AL134538, U46345, AB026436, AR066494, AR054110, AR060234, A81671, and AR069079.
HHEUL05	8652	931045	1 - 573	15 - 587	Z45694.
HHEUD79	8653	774157	1 - 599	15 - 613	R31253, and N76374.
HHEUR81	8654	836730	1 - 705	15 - 719	AA488956, and AI857635.
HHEUP07	8655	952217	1 - 365	15 - 379	AA608595, AA526092, AA548029, AI819569, AI978712, AI872216, AI572693, H73855, AI244758, AI205181, AI270326, AI821493, AW419161, AI732074, AI820988, AL138218, AW023389, AL079804, AL134330, AA984191, AA993198, AI144330, F02412, AA878495,

AA664604, AI084012, H58386, N85991, R42913, W60516, T65997, AW405850, N83375, AW403720, AL120008, AA579278, AI254338, AA747375, AI821044, AA077223, H72688, AW342042, R59868, AW419262, T47739, AA714595, AA557879, AI338509, AL046409, AA747889, AI250747, AA909004, AI223735, H78150, R64126, AI744949, AW193500, AA805841, AA431350, F32668, AA515435, AI792130, AI205126, R44841, AI628288, AI792337, AL119259, AA705118, AA515224, AW438916, AI824562, W92302, AA669961, AA113367, AA228264, AI082510, AI887443, AA317170, AW074398, AA640272, AA595841, AI291823, AL119123, AI312790, AI039809, AI336054, H29977, AA327323, AA095511, AI355587, AA077817, AI792108, AL120343, AI830390, AA904137, AW383952, AA507837, AW088058, AW327961, N76908, AI446205, AI312149, AW338417, AW327960, T57604, AA377730, AW270768, H92369, AI926846, F37169, AI924251, AW008074, AL133862, AI358501, AA610491, AI291037, AI863399, AA503258, AW277174, AA657741, AW271917, AA533408, AL040462, H98660, AI783911, F36373, AL138242, AI929531, AI038990, AI708005, AW193493, AI446518, AI049986, AW406447, H52622, AI932884, AW236342, AI281903, AI963095, AI620585, AI471462, AA662431, AL038901, AI370878, AL120269, AW162049, AI813522, F32710, AI370475, AI925321, F23327, R72392, F29989, F00320, AI110770, AA570416, AW080134, AI753365, AI590406, AI064703, H09327, AA618158, AL041733, D58782, AW193609, AW169537, Y14768, AP000505, AF129756, AC005914, AC005237, AC007014, AC004583, AF086558, AC006130, AL034420, M21533, AB014080, AC006139, AP000514, AC002365, AP000049, AP000116, AP000311, M19822, AC002367, AL021937, AC008372, AL022165, M87914, AC005361, AL035684, AC006088, AC003035, AC007686, AF020503, AC007395, AC006354, AC012085, AL022329, Z84479, AC006128, AC005216, AC008071, AC003668, AC005104, AL035681, AF064863, AC003669, AC005919, AC005244, AL022324, AC006138, AL031666, Z93016, AC008163, AC006023, AL078595, AC000092, Z99943, AC004168, AL031779, AC004079, AL035410, AC005406, AC007666, AC002310, AC000052, AC003087, AC004180, AC006254, U85197, AL050321, AL021878, AC002040, AC004982, AL031224, AE000660, S41998, AC001227, AC004517, AC002101, AL032822, AC004827, AC007023, AC007436, Z83819, AL022327, AC002301, AL035587, AL031589, AL031734, AC000113, AC006111, AC004539, AL049546, AL022312, AC005844, AC005037, AC002364, Z69666, D63861, AC004990, AL021546, AC004467, AP000359, AC004016, Z86061, AL034548, AC007688, AC005152, AL022396, L17418, AC007091, AC006257, AF042091, Z99495, AC005258, AL078596, AL031133, Z98742, AC002543, AL035668, AC005327, AC007225, AP000567, AL033375, Z84490, AC005319, AL132712, AL031296, AC009501, M87918, Z82201, AC004835, AL049733, AL035415, AF111168, AC002558, AL133243, AL033376, AC005899, I59642, Z75746, AC005346, L39891, AC003089, AC003108, AC008125, AC016830, AL008718, AL031312, AL049838, AL021153, AC005608, AP000656, AF006501, AC004475, AC003098, AP000507, AC005911, AL078477, Z85987, AL034379, AC005164, AC004841, AL078593,				
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HHETN89	8656	786361	1 - 674	15 - 688	W79658, and AA468892.
HHETN03	8657	923009	1 - 630	15 - 644	AI598001, AI393602, AA084609, AW340905, AA744018, AI065031, AI3444948, AA714011, AI933714, AI962030, F29968, AI499954, AA837035, AI182731, AI278972, AL119691, AI190247, AA493226, AA602906, AA829044, T11828, AL038842, AA847622, AA775205, AA971196, AA644090, AI311796, AA825827, AA492015, AA622801, AA618035, AI150731, AA687730, AI678468, T67090, AI367473, AA502991, AI135108, AA765925, AA526326, AA515048, AA613624, AA452887, AW150077, AA312559, AI281818, AA679625, H29914, AA581247, AI335995, AA536016, AI821382, AW020094, AI031759, AI799569, AA526625, AL038893, AA559241, AA862183, N71685, AI659023, AW021399, AA486559, AA613761, AA832444, C75622, AA515905, AI754567, AA693366, AW341978, AA664043, AI755214, AI249688, AW150028, AL038705, AA640685, AW193265, AL044966, AA651632, AI818067, T71936, AW188742, F18842, AI345157, AA535216, AI077941, AW021627, AA427470, AA525753, AI039257, AI754105, AA559166, AA587516, AI815097, AI866160, AI701898, R98218, AW022934, AA350648, AA847508, AI176978, AI350211, AI653636, AA613594, AC007546, AC005899, AC004623, AC002115, AP000248, AP000210, AP000132, Z83840, Z85996, AC006468, AL008715, AC004232, AL022336, AC006011, AC005500, AC004598, AC005089, AC003669, AL022238, AC004783, AL031848, AC005225, AC002301, U91326, AC005730, AC005015, AC007160, AC011456, AC005102, AP000208, AP000130, M87912, AC005081, AC005562, AL023804, L24093, AC004745, AC004150, U52111, AC005228, AC005728, AL031662, AC004797, AC002395, AC005520, AC004148, AF134726, AC005399, AC005913, AC005328, AL021546, AC004156, Z97832, AL121593, AC016026, AC000062, AL034418, AL049759, Z98200, AL022165, AC006121, AC005412, AL022315, AL049760, Z82214, AL022302, AC002544, AC005544, AC006111, AC007263, AL031311, AC004996, S42653, AC005387, AP000555, AC005332, AC002425, AC004526, AL121603, AC007279, AC005513, AC005409, AC005884, AP000502, AL035086, AL118512, AL049692, AL078600, AC000118, AC004559, AL050348, AC004696, AC002504, AC002543, Z99496, AF053356,

					AP000247, AP000967, Z93023, AC008033, AP000217, AC007917, AL109801, AL022328, AL049757, AC005365, AC002350, AC005488, AL023880, AC007751, AL035089, AC005049, AC004821, Z95114, AF200465, Z83826, U95739, AC005924, AC005253, AC004990, AF111168, AC002511, AC007731, AC004638, AC002299, AL078477, AP000501, AL031258, Z75887, AC007225, AC005004, AC004024, AC007676, AC005529, AL022162, AC004231, AC004408, AC005519, AL246003, AL049776, AP000362, AC004447, AL109827, AL034553, AL021393, AC005391, AL096703, AF111169, AC007487, AC005377, AC005943, AC005257, AC005971, AC002310, AC006084, U72788, AC006137, AF001550, AL035450, AC005231, AC004019, U52112, AL008719, AL022476, AF048728, AC002039, AC006597, AC004834, AL022156, AC004051, AC009247, Z98855, AP000047, Z83846, AF196969, L29074, AL021453, AC004882, AC007386, AC004531, AC005620, AC004815, AC000159, AC006480, AL035681, AC006530, AC006165, AC009405, AP000470, AL022721, AC007285, AC007736, AC006014, AL031984, AC006449, U62631, AC006430, AC006344, AC011504, U63630, AC002126, AP000306, AL008583, AC004814, AC005696, AL117354, AC004851, AL049636, AC000090, AL031666, AF190465, AC000353, AC004263, Z73496, AJ003147, AC000052, AC008014, AC005005, AC007845, AC009946, AC006001, AC005280, U07563, AC010205, AC005821, AL109798, AL031584, AC005095, AP000689, AL031643, AC005212, AC005914, AC005944, Z98743, AL135744, AC006285, AF039907, AC004921, AC005740, AC006333, AC005785, AC006299, AC000039, AC007842, AC003104, AL035659, AL133246, and AC004975.
HHETK38	8658	973120	1 - 565	15 - 579	AC005476.
HHETH36	8659	901275	1 - 540	15 - 554	AI040349, AA480189, AA027168, AI935351, AI184494, AA927786, AA027167, AA282618, AI968421, AI913352, AI128765, AI302397, AI984941, AA287702, AA933851, F24601, AA938000, T56346, AA326546, T56496, AA365652, AA382209, and AB023172.
HHESV83	8660	780456	1 - 317	15 - 331	
HHESV71	8661	806332	1 - 213	15 - 227	AA902215, H18354, AA630672, AA834707, AA019312, AW022433, AA961035, AI268334, AI268336, R44116, N74072, AA320966, AA504877, AA993818, AI811799, AI630176, AI828801, AA484373, AI267269, AW080436, AW148507, AA137013, AA737106, AI110595, AA541423, AW084466, AA402129, AA101689, AA303007, AW265735, AW270343, AA526630, AI932599, AW327548, AI675615, AA442176, AW410354, AA302327, H12071, AA947534, AI753488, AW275719, AA455483, AW302087, AL046205, AI049709, AF034194, AF037630, AI370104, AI224415, AA610219, AA837087, AI334443, H73230, AW022897, AW275971, AW102846, AA568494, AL047349, AL036382, AA743445, AW172928, AA443390, AA533176, H86365, AW302080, T99827, AA523841, AA468131, AA483223, H25921, AA454177, AC008116, Z68276, AP000967, AC004903, AC004896, AL021707, AL035588, AC002126, AL109798, AL035562, AC005005, AP000365, AB015355, AC004043, AL049829, AF053356, AP000431, AL022336, AC004901, U85196, U91318, AC002219, AC004491, AC006318, Z85995, AP000049, AC003075, AC004814, AC006509, AC005179, AC006511, AC008009, AP000959, AB000661,

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HHESS93	8662	791729	1 - 743	15 - 757	N50846, N45661, and H40596.
HHEQV46	8663	718640	1 - 557	15 - 571	N57265, AA282692, AI242959, H71719, H75784, and AW183081.
HHEQT07	8664	952452	1 - 2385	15 - 2399	AI760464, AI767592, AI638548, N32912, AI807501, AI741842, AI279458, AW044672, AI274099, AA431728, AI631609, AI654431, AI139981, AI627630, AI096928, AW451355, AI631656, AI081396, AI796487, AI936118, AA525762, AI221786, AI640766, AW062345, AI207996, AA559026, AI798316, AW452771, AI214760, R60899, AI084691, AA516035, AA504631, AI077969, AA771793, AI339473, AI080052, R21999, R64203, AI287970, AW073288, AI352433, AW083740, W31679, AI280486, R69571, AA258401, AA063284, AA302159, AA758823, N69911, AA935191, H09080, AA040796, R64109, AI424748, N62769, AI823758, R33811, AA933822, AI347371, AI673707, AI673708, AA764746, Z38855, AW071057, N42054, AA747629, AA019766, AI783475, R21998, C01887, and AA507164.
HHEQP75	8665	973104	1 - 515	15 - 529	
HHEQL50	8666	723930	1 - 455	15 - 469	AA083528.
HHEQK53	8667	727812	1 - 690	15 - 704	R22320, and R22319.

HHEQH22	8668	723305	1 - 357	15 - 371	H84643, AI688153, AA481647, AI869837, AW361991, AW029303, AA481414, N34803, AA857012, AI360148, AC006050, AF073926, AF047438, and U49841.
HHEQC89	8669	786603	1 - 474	15 - 488	AA210815, and AI939420.
HHEQC26	8670	679505	1 - 514	15 - 528	AA203563, and AC005164.
HHEQB59	8671	738866	1 - 735	15 - 749	AI003508, AI733556, AI792286, AI792327, AI696480, H28915, AI810218, AA679636, AI924520, AW105710, AI018653, AA678645, AA825445, AL078475, AP000025, AP000026, and AI050302.
HHEQB23	8672	675500	1 - 145	15 - 159	R94836, and AA577023.
HHEPW95	8673	588266	1 - 274	15 - 288	
HHEPW40	8674	588265	1 - 363	15 - 377	
HHEPW11	8675	966789	1 - 347	15 - 361	AA487512, AI697235, AA382130, AA528634, AW316599, H62537, AI345704, AI345794, AW161459, AW161879, AI191343, AI003797, AA936548, AA526032, AW084431, T92788, AI360690, AA856958, AI808173, AI114739, AI446500, AA650108, AI978931, AI886224, AA745570, AA093114, AA299422, R76735, AI697242, AI690474, AI583677, AI692245, AI697239, AA507631, AA494253, AA458752, T06876, AA789098, AA069926, N25034, AA554389, AA668945, F28756, AL047645, AA218835, AI922583, AI623741, AA350375, AA360015, AA209436, AI298557, AA907192, AA808843, AA569494, AA808847, AI358514, AA652675, AA886227, AL045107, AA826006, AA148800, AA148531, AI749306, AA773302, AA320722, AI689198, F33184, AA482693, T90014, AI026710, AI829381, H78921, AA666327, AA493618, AA338216, N38803, AI753549, AI934548, AA578245, AI537023, AI246386, AI560228, AW089952, AI753969, H78281, AI580018, T87818, AA778826, AI190247, H24953, AI150848, AW008231, AW377907, AW377921, AI922805, AW377912, AA303770, AI524712, AL079869, AI929738, AI686563, AW163602, AW162887, AW390555, AW162662, F18394, AI274684, AL045451, AW390278, AI139971, AC007055, AC005844, AL049748, AP000432, AC004217, AC004225, AL034420, AC002312, AL034400, AC016831, AC005585, AC001228, AL096801, AC005531, AL096773, AC005215, AC004858, AC007444, AC004004, AL109839, AL009031, AC002326, AC004477, X76775, Z96104, AC002470, Z93023, AC005516, Z95152, AL132987, AC004997, AF109907, AC000353, AC005280, AC004854, AC005534, AL034371, AL135744, AC007911, AC008119, AC007917, AC003043, AC005200, AC005553, AC007786, AC004999, U80017, AC006071, Z98950, AC004495, AC007964, AC007370, AC005318, AC005409, AL031681, Z97053, AC006101, AC004925, AF017104, AC007182, AC000379, AC004257, U41384, AC005027, AL049780, AC007226, AL121852, AL022322, AF190465, AL135745, D86992, AC006505, M20902, AC009501, Z49154, AF090931, Z98754, AL133371, AL021578, AL133396, AP000066, Z73359, AL035072, AL121892, AC004638, AC005261, AC005736, D88270, AC005902, AC004234, AC004821, AL035660, AL049631, AC006432, U73627, AF061779, AC007671, AC004923, AC007151, AC005839, AC002073, AC005332, AC000087, AC006441, AC008072, AC000071, AC004960, AC004216, AL121655, AL049709,

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HHEPT05	8676	912266	1 - 2504	15 - 2518	AW069598, AW131635, AI669446, AI669022, AI968479, AA628971, AA928346, AA828393, AI245982, AW305033, AI399953, AI478692, AW276504, AA653293, AI082346, N57490, AW264574, AA583342, W72055, AI887350, AW268530, N68244, AW130656, AW131233, AI819853, AA253240, AA167004, AA491296, AA171704, AW273451, AA890295, AI431699, AI061332, AI373431, AI262352, AW196819, AI253535, AW243718, AI831015, AA683296, AA846151, AW316619, AI369009, AI942247, AI302629, AI379246, D29081, AA559882, AA722978, AI128087, AW023413, AA287414, AI433493, AA720906, AW130662, AA463506, N77877, AI253623, AA463439, H24406, AI924613, AW192204, AA397433, AA989368, R46595, R24070, AW089044, W05834, T15472, AI265964, T65426, AI749288, AI923627, AW020937, AA855107, AI378942, AI276045, Z45625, T16609, F09478, AA364112, AI984324, AA961110, R77605, AA402444, AA834097, R58443, F05807, R24122, AA650077, AA658584, AI971866, AA327416, R77606, AA171628, H22552, H43755, and AA720957.
HHEPT03	8677	923410	1 - 1057	15 - 1071	AL138265, AI679782, AI687343, AL048925, AA181773, AL046409, AL042753, AA749158, AI963720, AI431303, AI696962, AW193265, AW327868, AW303196, AI279417, AW274349, AA847499, AI623720, AI696955, AW301350, AI270117, AI345654, AL044940, AI801482, AL038705, AA581903, AI281881, AI754253, AL037714, AI613280, AL041690, AI312309, AA515728, AA720702, AL138455, AW085790, AI986165, AA490183, AA846935, AI061313, AL119984, AA101689, AA470969, AA491814, AW438643, AW276827, AA577906, AA569471, AW088202, AA704393, AI192631, AA723017, AI570261, AI610920, AI249997, AI270559, AA857486, AI457397, AA587604, AI635440, AA621858, AI110770, AW408717, AI559705, R98218, AI679045, AA469451, AA649642, AI246119, AW072587, AI610607, AI962050,

					AL038703, AA613227, AW301809, AI049709, AI350211, AI358501, AW238583, AA551552, AI298710, AW062724, AI732151, AA482768, F36273, AA586458, AW088718, AA515224, AI754955, AA610493, AA533036, H71429, AW338086, AI951863, AW162049, AW193432, AC000353, AC006211, AC005829, AC004895, AC005527, AC005081, AC002565, AL031659, AC005295, AC004796, AC005399, AL049780, AL096791, Z98884, AC002375, AC005971, AF001548, AC005412, AC005519, AC005920, Z97054, AL049636, AC004883, AC004638, AC002300, AC006312, AC004963, Z98742, AC005015, AC005837, AC004887, AF111169, AC016831, AL035684, AC016830, AC005102, AC005488, AL033527, U91321, Z98743, AC005666, AC002425, AC002470, U95742, AC004491, AL080243, AP000697, AB020865, AC003101, AL050332, AL031668, AL121653, AC007011, AC005003, AF001549, AC005562, AP000555, AC002288, AC006057, Z84487, AL034417, AL133244, AL049869, AF053356, AC004605, AC005071, AL035089, AC002301, AC007637, AC006285, AC005261, AC007284, AC002492, Z95152, AC004821, AC007216, AC002310, AC007151, AP000501, AC005578, AC006966, AC007298, AC004228, AC004032, AP000553, AC004686, Z93930, L78833, AC005209, L44140, AJ003147, U80017, AC008372, AL022330, Z95114, AL031651, Z83840, AC005067, AC005880, AL020997, AC004967, AL023807, AC000025, AC007193, AP000350, AC002302, AC009516, AC005237, AC005632, AC004253, AC004383, AC002352, AF064861, AB026898, AF107885, AP000688, AL117258, AL022329, AL022318, AC005821, AP000557, AC006461, AF207550, AC004876, AL109839, AL050307, AP000556, AC005736, AC006512, AC006324, AF030876, AC016026, AL049776, AC007114, AL035419, AC004675, AC006449, AC004019, AC006538, AC007541, AP000493, AP001053, AC002477, AF031078, AF088219, AF111168, AC005919, AC005529, AC004805, AF196969, AL050318, AL035079, AC002365, AC007066, AC005082, AC007030, AC005377, AC004841, AC005790, AC005914, AL133448, AC004033, U91322, AC003950, AL031311, AC006064, Z84484, AC002404, AF109907, AC004230, AL121652, AC004522, AC005940, AL031432, AP000689, AC002395, AC006023, AC002070, AF196970, AL109628, AC004966, AC004991, AL034343, AC005531, AB003151, AL008725, AC007050, AC020663, AC005690, AC006581, AC004531, AC006120, AL024509, AL031846, AC006251, AL035455, AC016025, U95090, AC007225, AC016027, AC005730, AL109758, AL049709, AL049760, AC012085, AC005049, Z83822, AC006101, AC004938, AL034420, AC005011, AC006344, AL034549, AC006115, AC007055, AF196972, AL009181, AC005622, AP000512, AC004659, AL035415, AC005799, AC005154, AP000511, AC004878, AC002558, AL049539, AF037338, AF134726, AC006212, AC005899, AL008718, AL133249, AC005859, AC004771, AL031587, AL031291, AP000355, AC003007, AC007842, AL079342, AL021707, AL109984, AL049759, AC004257, AC005089, AC005544, AC007308, Z94056, and AC005280.
HHEPN71	8678	588241	1 - 721	15 - 735	W56087.
HHEPM69	8679	588235	1 - 372	15 - 386	

HHEPG62	8680	877268	1 - 814	15 - 828	AW007647, AA410428, AA425770, AA702540, AA953885, AA256277, R67851, Z38978, R41246, H41898, Z19699, D62705, AI541468, AL133113, and A75286.
HHEPG59	8681	925436	1 - 529	15 - 543	AA521097, AW268594, AA917092, AA703191, AI580848, AL043152, AW002653, AI146275, AI275894, AI611051, AA029718, AI699998, AI092449, AI242378, Z38987, AI760326, T81076, AA248753, AW393578, AW393562, and T81124.
HHEPF21	8682	956241	1 - 463	15 - 477	AI650932, AW183419, and AI078600.
HHEOG81	8683	588155	1 - 353	15 - 367	N57024, AA412609, AA446493, AA446313, AA412274, AA417161, AI206458, AI024531, AI027971, and N29332.
HHEOA63	8684	744995	1 - 521	15 - 535	T75517, R99167, and T99393.
HHENY02	8685	919775	1 - 361	15 - 375	AA936859, R08108, and AL031120.
HHENW11	8686	887661	1 - 389	15 - 403	AA216412, T99179, AI285753, AI924872, AA442105, AI174766, AA635739, AI250083, AI311684, AI805363, AI254279, AI133164, AA729282, AA491449, AA489996, T60940, AA420877, AA490183, AA420452, AI133297, AI223604, AL041619, AI310780, AA493695, AW080777, AC005620, AP000432, AL049795, AC005011, Z97054, AC006079, AC003071, Z95331, AC002073, AC005102, AL121658, AC016831, AC007227, AL021546, AC007938, AC005666, AP001053, AP000556, AC006137, AC006430, AC007226, AC006538, AC005231, AC007688, AC016027, AC007564, AC008055, AC005291, AC003030, AC005244, AC002539, AL022165, AL096701, AP000252, AC004562, AC009399, AC005067, AL049569, U85196, AC006312, AC004263, AP000212, AP000134, AC004491, AC012085, AC008079, AP000043, AP000111, AL035420, AC004796, AL008715, AC007057, AC005899, AF039907, AL031680, AC004999, Z93023, AL021707, AC002126, AC005410, AC006241, AC004234, AL035410, AL049631, Z93930, AC005484, AL024474, AP000251, AC005800, AC006101, AC004149, AC004531, AC006131, AB003151, AP000688, AC004882, AP000300, AC005874, AF134471, AC005412, AE000661, AL035587, AC005722, AC004815, AJ003147, Z98051, AC016830, AL022724, AL122021, AC005480, AP000689, AL031577, AC005049, Z83826, D84394, AC007567, AC005200, AP000030, AF124523, AC004985, AC005921, AC005592, AP000045, AP000113, AC007566, AP000692, AC006511, AC004056, AC005940, AF024533, Z97056, AC004876, AC005189, AL031588, AL031685, AL031848, AC002464, AC005821, AC005225, Z97205, AC005004, AC008067, AL049779, AL031432, AC003982, AC005088, AC002404, AC004910, AC007676, AL008583, U62317, AL049872, AC002119, AC009247, AC005837, AC006581, AL031584, AC005015, AL078584, AL031666, U80017, AC006211, AL009181, AC004408, AC007066, AC005971, AL021918, AC004832, AC004067, AL021578, AL034419, AC007686, AF038458, AC006948, AL135783, AL008582, AC006011, AC004953, AC004973, AL022323, AC007792, AC005786, AC005257, AC005988, AL031274, AC002429, AC004801, AL050318, AC006039, AC004859, AP000065, Z93241, AC005630, AC005280, Z82171, AL022316, AC006509, AC007040, Z99716, AC002477, AC002094, AF049895, AC005839, U52111, AC006126, AC004383, AL096791, AC005300, AC006449, AP000112, AP000044,

						AL031133, AC005071, AC004890, U91321, AL117344, AB015752, AP000555, Z85987, AC005844, AC002289, AC005104, AF134726, AC005262, AP000553, AC004974, AC005520, AC004552, AC005180, AL139054, AF196971, AC004895, AL009179, AC002395, AC005332, AC005585, AC005089, AC004894, AC004685, Z95116, AF129756, AL022163, AC005476, AC004148, AC003684, AC006946, AL022394, AC004686, AC000120, AC005695, AC009330, AC004098, AL132777, AC003010, AL031283, AC003035, AC006571, AC002527, AC007637, AP000346, AC004605, AL031665, AC004534, AC005081, AC006111, AC008126, AC005209, AL023807, AP000358, and AC020663.
HHENQ08	8687	959262	1 - 431	15 - 445		H68621, H80833, and AC004622.
HHENK21	8688	858290	1 - 798	15 - 812		AA631620.
HHENJ29	8689	690576	1 - 488	15 - 502		AI357399, AI813392, AI769194, AA490985, AA648531, AA971925, N90859, AI074897, AA886373, and AA609916.
HHEND53	8690	728111	1 - 500	15 - 514		H22946, and Z38757.
HHENC71	8691	757844	1 - 530	15 - 544		W95913, and AC003090.
HHENZ66	8692	586737	1 - 432	15 - 446		AW340990, AW270170, AA913381, AW392670, AL119341, AL119319, AL119457, AL119324, AL119484, AL119391, U46350, U46347, Z99396, U46351, U46341, AW372827, AW384394, AL119497, AW363220, AL119363, AL119355, U46349, AL119483, AL119443, AL119522, AL119439, AL119444, AL119399, AI142131, AL134920, AL037205, AL119401, AL134531, AL119396, U46346, AL119335, AL134527, AL134536, AL119418, U46345, AL134538, AL119496, AL134533, AL042975, AL042544, AL043019, AL042984, AL042433, AL042542, AL042614, AL042965, AL043029, AL134529, AL042450, AL043003, AL042551, AL119464, AB026436, AR066494, AR054110, AR060234, A81671, AR069079, and AR043113.
HHEMW78	8693	773507	1 - 725	15 - 739		AA251113, AA766300, AA651948, AA703557, R94607, AL119319, R94247, AL042551, AL119418, AW392670, Z99396, AL119457, AL119324, U46351, U46350, AL119497, AL119522, U46347, AL119484, AL119391, AL119443, U46341, AW372827, AW384394, AW363220, AL119355, AL119363, AL037205, U46349, AL119401, AL119439, AL119341, AL119444, AL119483, AL119335, AL134525, AL134536, U46346, AL134528, AL119396, AL134531, AI142131, AL119464, AL042544, AL119496, AL134902, AL119399, AL043019, AL134538, U46345, AL042450, AL042433, AL042542, AL042614, AL042984, AL043033, AL042965, AL042975, AL043029, AL043003, D86604, AB026436, AR066494, AR060234, A81671, AR054110, and AR069079.
HHEMV01	8694	916281	1 - 262	15 - 276		R95819, H61040, H61032, and AC003681.
HHEMQ68	8695	752326	1 - 140	15 - 154		AC006991, AC008175, and AC007967.
HHEMQ48	8696	493733	1 - 534	15 - 548		
HHEMN37	8697	708468	1 - 205	15 - 219		
HHEMK77	8698	772115	1 - 255	15 - 269		

HHMK26	8699	681595	1 - 458	15 - 472	AC004047.
HHMIJ91	8700	789443	1 - 572	15 - 586	R38756, AA169642, AA807905, AW021148, AA746636, W76332, AA041299, W72247, Z40683, AW054820, Z41322, AI089582, AI138777, AW151097, AA041351, AA705107, and Z95152.
HHMI69	8701	755006	1 - 445	15 - 459	AW197056, AL042891, AA650218, AI359687, AA658543, AI421102, AI809745, AA226084, AA653852, AL080243, AF196779, AL096701, AL121603, AL031291, AC005520, AC005562, AC005081, AC005037, AC003071, AC005102, AC006441, AL049776, AC002369, AC005844, AP000354, AC005057, U80017, Z93017, AL132712, AC006312, AC005071, AC004883, AC005015, AC006057, AC006211, AC016027, AC004859, AC006251, AC007227, Z83840, Z97630, AL049569, AF165926, AC002544, AC004662, AL024507, AC006285, AC007707, AL031685, AC007537, AF053356, AC005011, AF001550, AC007193, AL022316, AC020663, AC004966, AC005484, AF001552, AC007225, AC012384, AL049839, AC016830, AC007688, AC002395, AC004878, AC006946, AC000052, AL008582, AC004815, AL021453, L44140, AL021391, AC007637, AP000248, AL109952, AC005829, AC005786, AC002301, AP000503, AC010205, AC004796, AC004491, AC004019, AC005049, AC007546, AL034420, AF047825, Z83844, AC004814, AC008372, AC004953, AC003101, AP000355, AL022326, AC007686, AC005225, AL109984, AC005722, AC006014, AP000065, AF134726, AL023575, AC004887, AC004084, Z98941, AL031584, AL022315, AC000026, AC002350, AC015853, AC005622, AC006059, AL022476, AC000025, AC002073, AC005529, AL033527, AC004382, AL050318, AF111168, AC005527, AL022336, AC004832, AP000692, AC005031, AC005488, AC003010, AC002059, Z84487, AC008040, AC002119, AL031255, AC002394, AL133382, AL031591, and AC006121.
HHMI56	8702	469030	1 - 445	15 - 459	AI133448, AI339436, AA401945, AL044340, AL037425, AI014656, AA577824, AI216990, AI569363, AI179163, AI249880, T74524, AW079809, AA524229, AC004491, AL050306, AC005921, AC008033, AC007686, AL031255, AC002094, AC002470, AC005088, AC005796, AC005859, AC005037, AC006241, AL080243, AL049776, AC005844, AC016026, AC005231, AC004859, Z84466, AC002352, AL049540, AC005527, U91323, AC002288, AC007371, AC004707, Z93241, AC007731, AF038458, AC005899, Z82206, AC007057, AC005005, AC004985, AC004019, Z93023, AF030453, AC002300, AC005358, AC002425, AP000557, AC005881, AP000553, AC005519, AC005529, AC004983, AC007263, AC005332, AL031276, AC005940, AC006001, AL096773, AC004821, AC006509, AF207550, AC003071, AC005911, AC005484, AC007308, U47924, AC005520, AP000011, AC005488, AC005841, AL049758, AP000133, AC008372, AC002350, Z98752, AC009516, AL024507, AC006430, AL021707, AL049779, AC005412, AC002549, AC004922, AC002044, AC007226, AC006538, AC005514, AL022238, AC005011, AC000025, AC002400, AC005377, U91326, AC005015, AL031058, AL022336, AP000211, AC005180, AL031283, AC002565, AC005666, AC007685, U91322, AC005602, AL024498, AC012384, AC006251, Z98941, AF165926, AL031228, AC005089, AF030876, AP000555, AL133163, AL035249, AP000512, AC005409, AL022320, AL035086,

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HHEMI09	8703	625459	1 - 448	15 - 462	AA280176, AA722934, AW402500, and AI471831.
HHEMG02	8704	917366	1 - 705	15 - 719	AI361650, AI939413, R13983, AI791644, AI792322, AA312035, AI424010, AW082869, AA911739, N56305, and AI422406.
HHEMG01	8705	916297	1 - 284	15 - 298	
HHEMD56	8706	733353	1 - 400	15 - 414	R94247, and AA251248.
HHEMC41	8707	927255	1 - 457	15 - 471	AI146808, AA722187, AI990261, AI808778, AW451154, AI983943, AW449490, AI088675, AI492618, AA526969, R76719, AW162759, AA719439, AI880009, H41614, D80207, H97676, AI804223, AA115533, H13188, AA552629, AI796667, H13189, W23735, W35334, AI203992, AW304934, AI150509, AI832722, AW157796, AA115532, and AI916646.
HHEMC10	8708	969380	1 - 1813	15 - 1827	AW166113, AL119483, AI340151, AA491767, C75574, T47138, AA714110, C75406, AA444166, AI038304, H29914, AI249688, AW151247, H53546, F29968, AA525753, AA829723, AI251429, H47835, AI366180, C75602, AI031759, AA535216, AI572680, AI597580, AI254779, AI744766, AA494313, C75649, H60639, AA630854, AI620376, AI244356, AW103030, AA666295, AA602906, AI754567, AI619933, AI628859, AI150731, H47461, AW302017, AI570943, AI588837, AA779783, W05446, N49298, H88666, AI613465, AA176605, AA458534, H05066, AL047349, AW275432, AI627917, AA133293, AI755214, AI251576, AI571161, AW070532, AI288350, AA303054, AA662573, AI284105, AI306232, AA622801, T50694, AI049999, AI569100, AI077941, AA262752, AW302753, AI590404, AA714011, AA837686, AI144081, AW302711, AW301906, AI583466, N26201, AA452887, AA640710, AI580707, AW274191, AW192599, AW020612, AA218684, AA084320, AA128511, AA904137, AI610360, AL041894, AI829331, AA720582, R92658, AA581247, AA523331, AA828833, AI884383, AF071071, AF170303, AF170304, AF077658, AF071070, I34294, AC010170, AL049694, Z68285, AC009247, AL109952, AL049697, Z99128, AL023807, AP000553, U17576, S77605, AL035086, AC006509, AP000116, M87923, AC006449, AC005207, AC002302, AC003682, AC005776, AL049759, AC006111, AP000239, AC004797, D00591, AC002369, AL109758, AF196779, AL049776, AL080243, AC004033, AL080317, U82828, AC004771, AC002096, AC005377, AL031594, Z83826, S42659, AC000353, AC005747, AC016026, AC002115, AC005520, AC004584, AP000310, AC005065, AL050307, AC006505, AC007050, AF053356, AC005793, AL009183, AC004983, AL031230, AC000003, AL031284, AL096701, AL035071, AC007276, AC005067, AC000025, AF196969, AL022322, Z82245, Z98742, AC005332, AC004242, AC004534,

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HHEMA35	8709	467295	1 - 725	15 - 739	T69503, H96710, AI720229, AI180833, and AF115509.
HHEMA07	8710	953200	1 - 446	15 - 460	AA028899, AI767784, AI093656, H24053, and R17668.
HHELA35	8711	878217	1 - 449	15 - 463	AL042540, AL042026, AL040542, AL042640, AL041808, AL046135, AL044583, AL041936, AL046244, AL043604, AL043201, AL043218, AL046383, AL039689, AL042346, AL044015, AL043425, AL043424, AL045991, AL079876, AL042700, AL044377, AL043468, AL043795, AL043128, AL042245, AL044029, AL044771, AL042712, AL043867, AL049007, AR017908, A78783, A78785, A78787, I03356, I02541, A60975, A61052, A60955, A21624, A25853, A02712, A02710, E12615, AR035193, A84772, A98767, A13388, A21625, A68112, A68104, E14304, A47368, A07700, A02228, A02230, A13392, A13393, I62368, AR031488, I13521, I19516, I19517, A98467, A84776, A18756, A71435, A00781, A84773, A84775, I52048, A93963, A93964, A27396, A95052, I63120, A68114, A38214, AR043602, AR067733, A76773, AR062871, AR017907, AR043603, A84774, AR043601, A22413, A95117, A95051, A18053, AR027100, AR029418, I44531, I28266, AR067734, AR067731, AR028669, AR028668, AR028667, AR028670, A00784, A00783, A18050, AR037157, AR054109, A71440, A44171, A23334, A75888, I70384, I95540, AR018924, A60212, A84746, A60209, A60210, A32110, A63067, A64973, AR067732, A51047, A63064, AR029417, AR018923, A60111, A60211, A48774, A23633, I21869, A29109, A60109,

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HHEKZ12	8712	878267	1 - 428	15 - 442	AL042026, AL040542, AL042640, AL041808, AL042540, AL044583, AL046135, AL046244, AL041936, AL043604, AL043201, AL046383, AL039689, AL043218, AL042346, AL044015, AL043425, AL043424, AL045991, AL079876, AL042700, AL044377, AL043468, AL043795, AL043128, AL042245, AL044029, AL044771, AL042712, A25392, I03356, A78783, A78785, A78787, A61052, I02541, A60955, A21624, A25853, A02712, A02710, E12615, AR035193, A60975, A84772, A98767, A13388, A21625, A68104, E14304, A47368, I01971, A07700, A02228, A02230, A13392, A13393, I62368, AR031488, I13521, I19516, I19517, A98467, A84776, A18756, A71435, A00781, A84773, A84775, I52048, A93963, A93964, A27396, A95052, I63120, A68114, A38214, AR027070, AR043602, AR067733, A76773, AR062871, AR017907, AR043603, A84774, AR043601, A22413, A95117, A95051, A18053, AR027100, AR029418, I44531, I28266, AR067734, AR067731, AR028669, AR028668, AR028667, AR028670, A00783, A00784, A18050, AR037157, AR054109, A71440, A44171, A23334, A75888, I70384, I95540, AR018924, A60212, A84746, A60209, A60210, A32110, A63067, A64973, AR067732, A51047, A63064, AR029417, AR018923, A60111, A60211, A48774, A23633, I21869, A29109, A60109, AR007512, A63072, AR028564, A49700, A25909, AR031375, A48775, A23998, AR068507, AR068506, A86792, A58522, A83642, A24783, I44516, A58525, A24782, A83643, A49045, A91750, AR009152, AR000006, I60241, I60242, AR000007, AR028672, E16678, A58526, A82653, AR038066, A58524, I50882, A58521, A91753, E16636, E00974, I84555, A83151, E00954, E00952, E00953, E00955, I08049, I66488, A20702, I66489, I43960, AR021440, A58523, A49987, A37074, A37075, E03165, A06419, A21892, E02221, A10359, E01614, I13364, I12243, I12244, A23997, A49702, A10360, A93016, A13038, E02679, E02104, E02098, A29289, AR020969, A42484, A42481, A52326, E02001, E13740, I09342, E01718, E02003, A89633, E02102, E03550,

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HHEKI70	8713	955092	1 - 360	15 - 374	H81062, R66623, AA157130, AA709449, AI418982, AI224930, AA555217, AI670713, AI025077, AW024689, AW026453, N34521, AA583083, H11108, AI335880, AA782850, AW051284, AA995800, AI299462, AI749642, AI601228, AA909761, AA862779, AI720508, AI808092, AA191356, AA055048, AW294880, AI745210, AA907529, AI818823, AC003108, and U91321. AA017452, and AA058749.
HHEJR35	8714	878223	1 - 318	15 - 332	AI276548, AA447822, AI417105, AA447672, AA256175, AA256234, and AC005368.
HHEHK04	8715	925717	1 - 929	15 - 943	AI807087, AW271548, AI419841, AI538436, AA424573, AA770475, AA742969, AA873728, AA987961, AA972636, W72622, AA947936, AW016152, AA488904, AA826395, AI701287, AW138334, AI632691, AW138149, AW206969, AI350132, AW167659, AI475742, AI298733, AI985561, AI696060, AI334306, AW015583, AI767968, AI523823, AW149586, AI681193, AW139596, AI827183, AW052123, AI801957, AW004849, AA410446, AW015071, AI693271, and AA806974.
HHEHG38	8716	943785	1 - 570	15 - 584	AA706313, and AC004106.
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					N79427, AA479328, and AA585287.
					AA429377, and AA451768.
					AA134627.
					AA455618, R68619, AI963632, and R80278.
					AA548611.
					AA001827, and AI874381.
					W07668, AI041812, and Z59034.
					AA081780, and AA084623.
					AI732599, AA132796, AW205259, AA885330, AA769901, AI609831, AW087786, AI423901, AA313420, and AI791778.
					AI904811, AI869990, AA766310, AA493695, AA769402, AI567076, AW275510, AA490183, AA548058, AA757775, T60681, AA568869, AA515334, AI632259, AW002350, AW071163, AA484373, AW408047, AA526630, AA169263, AW023865, AL119691, AW438853, AW407578, AA468022, AI924872, AA491650, AI305766, AI345157, AI580250, AI982555, AA491862, AI783494, AI311927, AI445674, AI368256, AW083402, AW302903, AI687343, AA838190,
HHEGC05	8717	930878	1 - 457	15 - 471	
HHEFN76	8718	767770	1 - 687	15 - 701	
HHEFM41	8719	711954	1 - 764	15 - 778	
HHEFY63	8720	744592	1 - 600	15 - 614	
HHEDN70	8721	757106	1 - 376	15 - 390	
HHEDN51	8722	734118	1 - 380	15 - 394	
HHEDN49	8723	588136	1 - 384	15 - 398	
HHEDI54	8724	588129	1 - 551	15 - 565	
HHEDB30	8725	692086	1 - 550	15 - 564	
HHECT42	8726	588098	1 - 606	15 - 620	
HHECM62	8727	934414	1 - 534	15 - 548	
HHECA10	8728	973228	1 - 349	15 - 363	

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HHEBQ68	8729	752956	1 - 437	15 - 451	

HHEBQ59	8730	739216	1 - 453	15 - 467	Z82182, Z85987, and AL031674.
HHEBO04	8731	615127	1 - 452	15 - 466	
HHEBM89	8732	786088	1 - 453	15 - 467	AW365588, AW365645, AW178374, AW365586, AW365672, AW178440, AW365663, AW375350, AW365798, AW351683, AW365799, AW365784, AW365743, AW365772, AW351664, AI809449, AI738507, AI972625, AI721277, AW178298, AW179229, AW365840, AW365686, AW365631, AI221680, AW375355, AI039710, AW365803, AW365680, AI559604, AA583144, AI200839, AI580997, AW179232, AW365593, AA306854, AW365585, AA280016, Z21375, AA280087, AW178307, AW365767, AW365850, AC005317, and AC005316.
HHEBM53	8733	728087	1 - 459	15 - 473	AL037436, AL044199, AL037443, AL043677, AL043467, AL040576, AL038532, AL041635, AL043537, AL044074, AL045753, AL038838, AL041133, AL045920, AL041602, AL043492, AL044165, AL043775, AL038822, AL041752, AL040839, AL045857, AL046442, AL040745, AL045684, AL040617, AL040332, AL040255, AL040285, AL040342, AL040091, AL040128, AL040168, AL040253, AL044037, AL044186, AL040510, AL040625, AL045817, AL041142, AL041238, AL047183, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL039915, AL040444, AL046327, AL041131, AL045725, AL049069, AL045990, AL041227, AL040458, AL040553, AL041159, AL044187, AL046150, AL043612, AL041168, AL041955, AL037435, AL040090, AL040263, AL037343, AL040294, AL041197, AL040329, AL039744, AL044274, AL040082, AL044272, AL040148, AL041730, AL041523, AL043627, AL041186, AL046392, AL041374, AL040052, AL043845, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL049018, AL040472, AL043848, AL040370, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, AL046147, AL040768, AL037727, AL039360, AL046994, AL042712, AL042096, AL040414, AL040571, AL040529, AL046097, AL046914, AL045671, AI142134, AL037335, AL046360, AL080031, AL040238, AL045994, AL039338, AL037323, AL037341, AL041346, AL079878, AL041140, AL041278, AL040155, AL039432, AL047131, AL037295, AL041096, AL041358, AL047012, AL040463, AL045989, AL044227, AL045784, AL040464, AL037279, AL041098, AL041163, AL041277, AL037371, AL043538, AL041324, AL043440, AL039087, AL040621, AL037259, AL043128, AL040075, AL036788, AL048647, AL037352, AL046099, AL041210, AL040149, AL041086, AL041296, AL044162, AL043496, AL041233, AL036230, AL079953, AL079852, AL040193, AL037361, AL036500, AL038761, AL049007, AL041246, AL042700, T23957, T23888, AI525556, AI540967, AI525431, AI541365, AL045340, AI541535, AL042245, AI541374, AI541514, AI541017, AI546891, AL043950, Z30131, AL044015, AL043444, AI546855, T23985, T24112, T02921, T24119, AL039156, AI547039, AL044530, AL036630, AL039504, AW451416, AW013814, AL039555, AL039509, AL039564, AL039538, AL038043, AL039108, AL039678, AL039566, AL039074, AL038837, AL039521, AL039625, AL039648, AL039659, AL039629, AL045794, AL039476, AL043586, AL037726, AL038531, AL039109, AL040992, AL039924, AL039128, AL044407, AL036973, AL042909, AL045341, AL045337, AL044412, AL037051,

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HHEBJ08	8734	858429	1 - 526	15 - 540	AA810477, AI809719, AA767097, AB022537, AL031228, AP000089, AP000142, and D87675.
HHEBB80	8735	775424	1 - 365	15 - 379	AI741540, AA285147, AI828011, AA938365, AA744754, AA748786, and U66589.
HHEBB22	8736	858418	1 - 311	15 - 325	AA580560, AI982808, AA668548, AL047192, H41986, AA372736, AI581037, AA290795, W23553, AW075704, AA730782, AI049701, AA676621, AI904944, AI564301, R88803, AL137946, AA487475, AA297011, AA326452, AI053784, AA296604, AI762302, AI904692, AA804297, AA161492, AI002762, AJ132637, AC006111, AC007421, AC006511, AP000557, AI096701, AC005529, AC002477, AC004033, AC003982, Z83844, AC006261, AC002117, AC005736, AC004813, AL022476, AC005071, AC005932, AC005531, AC007283, AC005971, AP000689, AF003626, AP000512, AC006088, AC005280, AC005288, AC002425, AF111168, AC007637, AC005231, AC007216, AI109827, AI031602, Z99716, AI022327, AC007055, AI022315, AC004491, AC006312, AC005015, AC006130, Z82215, AB023051, AP001053,

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HHEBA86	8737	785413	1 - 529	15 - 543	T51229, AI438982, AA045636, AI263382, and W44735.
HHEAL37	8738	491205	1 - 452	15 - 466	AA846036, AA557945, AI061313, AA601336, AW157128, AI921744, AI038029, AW265468, AA618531, AA554289, AW239465, AA658443, AA828840, AI003068, AI251024, AL121039, AI702049, AA280886, AW021674, AI318548, AI064968, AW162314, AI344906, AI753365, AW023390, AA101744, AA653139, AA644090, AW162332, AA157876, AW237905, AW021847, AI570067, AI114755, AL135490, AA584489, AW148821, AA167656, AW410844, AA533660, AW439703, AW409626, AA828834, AA482682, AA507623, AI345256, AW131109, AI434103, AA631915, AW419389, AI027602, AI174703, AI520984, N99245, AA661583, AA761454, AI270280, AI815425, AA019793, AI254267, AW022796, AA601376, H47461, AW277240, AA847341, AI202777, AI361401, AA428991, AA496042, AI363336, AI149177, AI343808, AI744890, AI684999, AA205931, AI285651, AW029626, AA664963, AW162762, AI914748, AA847499, AA313025, AL133777, T15407, AI860423, AC006468, AC005755, AP000547, AF113694, AC006071, AL049694, AC004257, AC005585, AC006323, AC004997, Z82208, AF165926, AC004263, AF111168, AC007227, Z83844, AC016026, AC004685, AL020997, AC006088, AL031295, AC004000, AL049776, AL031662, AC000039, AC003037, AC005740, AP000692, AF107885, AL133163, AC005971, AC005822, AC007240, AC006449, AC004777, AC004812, AC008055, AL109952, AL034548, AL022165, AC004797, AC005529, AC005003, AL022323, AC005221, AC007934, AC005531, AC007066, AL033565, AC002310, AC003043, AC006581, AC005914, AC005071, AP000556, AC007536, AL133355, AC002310, AC003043, AC005632, AL121825, AC000353, AC003665, AC007308, AC016027, Z97056, AC004552, AC006512, AC005011, AC005288, AL031291, AF207550, AL021391, AL049856, Z98051, AC007845, AC007938, U91326, AC002464, AC002094, AC004801, Z75744, Z86090, AL022316, AL023553, AC006139, AC004972, AC005793, AL035072, AC004832, U91328, AC005826, AC004814, AC002039, AC006315, L78833, AL031427, AL109984, AL034417, AC004883, AC004913, Z97630, AL121652, Z82206, AC000026, AC002425, AC006379, AD000092, AC002316, AC006006, AL031680, AC004848, AC004099, AC005091, AL079340, AC005736,

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HHEAJ78	8739	773538	1 - 342	15 - 356	T50165, T50113, AF083037, AJ131693, AC004013, AJ010770, AB019691, AF091711, and AB018346.
HHEAF06	8740	935355	1 - 873	15 - 887	AA225048, AA486071, AA225002, AA259264, and AA259263.
HHEAD08	8741	959305	1 - 913	15 - 927	AI653055, AW137083, AI206286, AI206167, AI825389, AI635444, AW020480, AW080157, AI572778, AI689157, AA830536, AI872787, AI561356, T49776, AI273189, AI613028, AI627360, AI951062, AJ010953, I89947, and Z82022.
HHEAC20	8742	668948	1 - 445	15 - 459	AB023164.
HHEAA02	8743	932265	1 - 618	15 - 632	AA206987, AA174038, AW408551, T85017, AW407690, AW383801, AW372047, and D38553.
HFSBE12	8744	970629	1 - 306	15 - 320	AA343127.
HFSBB12	8745	971571	1 - 411	15 - 425	AI247356, and AA342973.
HFSBB06	8746	960835	1 - 312	15 - 326	AA687273, AA342970, AA490838, and AA651799.
HFSAZ51	8747	725973	1 - 703	15 - 717	W85737, AA203160, W86374, H73352, H73608, AA342722, and AF085998.
HFSAX30	8748	693419	1 - 370	15 - 384	AA342872, and N50158.
HFSAW27	8749	684668	1 - 359	15 - 373	AA342834, AI968315, AI677905, AA868484, AI867702, AI914523, and T69593.
HFSAU89	8750	785904	1 - 479	15 - 493	AL048376, AA302964, N52560, AA630004, AA526343, AA721530, R86160, AA713765, AI431513, AA078184, AA714073, F05830, AA363003, AI915081, AI884861, H99700, AI803741, F08866, AA741301, AW019964, F35684, AI520967, AI223968, AA663373, AA484892, AA079076, AI300818, AI310992, AA721523, AA678616, AA527954, AI859736, AI859906, AA078137, AI185394, R67701, AA579281, AA742949, N72607, AA664248, AA632556, AA657910, AA636102, AI276360, AA946848, AW084445, AI049701, AI678476, H84412,

AA642809, AA223512, AA748102, AA729755, AI955249, AA766414, AI890324, AA244181, AA970967, AI002762, AI591134, N22153, AW079667, H79586, AA916430, W01323, AA640310, AA572982, R02063, AA937809, AA074143, AW073498, AI743669, AI309121, AI929410, AA595656, AI860535, AI753672, AI869786, AI802533, AI750950, R83068, AI459866, AI683019, AW068596, H67172, AA297195, R88817, AA810376, AA610233, AA523330, AA578231, AW392414, AW243945, D51809, AI077941, AA629731, AI927261, AA226770, R07452, AW341882, AA807579, AA353168, H86579, N63897, T55459, T87883, AA573000, AA481765, AA180775, AA757426, R08220, AA618180, H66755, H66832, AI279417, H86221, F31811, R88803, AA298365, AA527877, AA298394, AA744410, T57077, AA515254, AW237905, AA847427, AI678581, AA578973, AI434037, AA847508, AA593828, AA018923, AA371519, AA862029, AA012829, H43183, AA602935, AI564301, AA961554, AA741403, AA683069, R99076, AA713705, AA856866, AA745351, AA808036, H01243, AW105729, AA745468, AA550959, R93642, AA515172, AA605243, AA740571, AA074351, AI348467, AI973173, AI653783, AA745383, R64640, AI912401, AA653291, AA019003, AA551204, H66831, W35326, AA434346, H90845, AW151761, AF169957, AA568127, AI863287, N52293, AI797998, AA722505, AI871691, AI819262, N40092, AI471455, AI762302, AI583291, AI003137, AA077637, T87102, AA513884, AI687343, AA620510, AI525789, AA738283, F17537, AA747229, AI590404, U91318, AF064861, AC005081, AI132987, AC004796, AC003009, AC003663, AI096775, AP000193, AP000049, AI021155, AC005089, AP000311, L34635, U62292, AI096774, AI109827, AC005620, AC004491, AC004559, AC005971, AC005159, AC003678, AI034417, AC005015, Z99716, U73167, AI009183, U90094, AI109963, L47234, AC006597, U91320, AF045555, AC004815, U63721, AP000503, AC009363, AC007225, AC000379, AC016027, U78027, AC002064, Z98946, AC006130, AC005037, AC016830, AI034423, AI121754, AC007993, AP000030, AC006123, AC005940, AI049843, AC004998, AI035422, Z69707, AF134726, AI030997, AI022302, AC005722, AC002312, Z73361, Z83826, U73330, AI049538, AF097485, AI034351, AB012723, AC008989, AI049576, AC004901, AC005663, AC008122, AC004891, AC003085, AI080250, AI035562, AC005664, AC004883, AI022718, AI049875, AC006547, AC007182, AC007308, AC004585, AC006116, AC002563, AP000117, AC004033, Z83819, AC005768, AC007875, AC004382, AP000210, AP000132, AC004785, AC005476, M84371, AC003690, AC007151, AC005225, AI035405, Z98304, AI132712, AI035400, AC005291, AC005280, AP000128, AP000206, AP000248, AC007279, Z83844, AC005920, AC004150, AP000300, AP000045, AP000113, AC006312, AI049793, AI049869, AJ246003, AI020997, Z99758, I34294, AC009178, AC005827, U47924, U80017, AF124523, AC007690, AC006079, AC004953, AC005519, AC008249, AC012099, AC000159, AC003973, AI121658, AC005755, AI139054, AP000299, AP001068, AC004878, Z95331, AI049636, AC003667, AC007528, AC003982, AF196779, AI031577, AC006057, U92971, AF217403, AC005562, AP000245, AC007423, AI031407, L81909, U43589, AJ000219,					
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HFSAU84	8751	781861	1 - 462	15 - 476	AA002008, and AA342765.
HFSAT96	8752	504394	1 - 314	15 - 328	AA342649, AL1417549, AI015042, AA937811, R10133, and AA809838.
HFSAT48	8753	720843	1 - 734	15 - 748	AW444617, AA127741, AI167643, AI766982, AA127805, AA026398, AI858903, AA026454, AI219704, AW150317, AA342691, and AB032980.
HFSAS86	8754	785851	1 - 371	15 - 385	AA232575, AI640189, AI654402, Z39790, AI569812, AI628986, T32417, R77502, and AA232707.
HFSAR68	8755	675246	1 - 496	15 - 510	AW242724, AL038812, AA847357, AA342457, and AA828137.
HFSAP25	8756	677463	1 - 471	15 - 485	T91860, AA342526, and AL050343.
HFSAK31	8757	504424	1 - 530	15 - 544	AA342210, and AA342211.
HFSAK14	8758	504431	1 - 338	15 - 352	AA342217, T89445, and Z82204.
HFSAI68	8759	733858	1 - 463	15 - 477	AA342239, AA453470, R88771, H67880, AA453977, and AC006017.
HFSAH34	8760	526472	1 - 683	15 - 697	H98141, AA932231, H13331, AA342176, and AA774480.
HFSAG03	8761	960973	1 - 482	15 - 496	AI608909, AA652060, AA342084, AA297662, AC009247, AC007021, Z73359, AC006305, AC003101, AC005531, AL049776, AL050318, AC007151, AF001548, AC005919, AC003049, AL117355, AL096773, AL022316, AC007637, AL022318, AL022329, AL022311, AL031602, AL023799, AC005670, AC002326, AC004531, AC000379, and AC005800.
HFSAF53	8762	728528	1 - 439	15 - 453	AA187595, AW269861, AI684495, AW269881, AW087253, AA342077, AI468367, and AA972820.
HEOQI52	8763	850966	1 - 399	15 - 413	AW088326, AI566702, T62825, AA483086, AA814532, and AA180167.
HEOPY91	8764	933173	1 - 536	15 - 550	AA283977.
HEOOA49	8765	942561	1 - 731	15 - 745	AW373840, R15032, and T97932.
HEONX61	8766	741864	1 - 324	15 - 338	T91881, AB011135, AC005670, and AC005829.
HEONO64	8767	746660	1 - 587	15 - 601	R98434, R98433, H59682, N54298, H59632, H62487, AW067991, and AB032993.
HEONO59	8768	741361	1 - 848	15 - 862	W37916, AW369323, AL138197, AA292636, AA789205, AA278688, AI077497, AI670821, AW117287, AA608906, AA382777, AA724269, AA278680, AA827227, AI160796, AA600253,

						AI990171, AA625768, W37874, AA421286, AA292637, AA844108, AA917528, AW316905, AA768446, and AF117210.
HEONN02	8769	840210	1 - 364	15 - 378		H81666, R20624, H02596, and AL109758.
HEONL19	8770	573884	1 - 476	15 - 490		
HEONL09	8771	961147	1 - 142	15 - 156		AL042382, AW162194, AL079794, AL119399, AI698401, AI251221, AL079963, AI961589, AI382670, AI829990, AW438793, AI624293, AI811785, AI826225, AW080279, AL036980, AW075645, AI345347, AI824576, AI610667, AL037582, AL037602, AI783821, AA527133, AW022584, AI468872, AI919593, AI890507, AI690748, AI933992, AI446515, AI537677, AI538850, AI923989, AI963224, AI814087, AW170725, AI491852, AI559752, AI634224, AI280747, AI580214, AI868204, AW089233, AW128983, AI445115, AW075484, AI758309, AL046466, AA693314, AW130804, AI922075, AW050850, AL043168, AW081606, AI570872, AI648436, AL121496, AI434134, AI568138, AI628296, AI439745, AI917963, AI921254, AW148423, AI590118, AI564765, AI570966, AL119457, AI866457, AI349645, AW081902, AI623941, AW051088, AI470648, AW409775, AI541048, AI758437, AI802372, AI859991, AI926333, AL037639, AI890907, AI352326, AI307494, AW105601, AA983883, AI580674, AL036673, AW169604, AI670009, AW075482, AW022102, AI534821, AI340511, AI696570, AI916419, AA464646, AL038445, AI564259, AW088882, AI564234, AI540759, AW161156, AW020397, AI866465, AI698391, AI453487, AI446046, AI612885, AW102794, AW071689, AI590043, AI568060, AI620639, AA814990, AI538342, AW161735, AW079336, AI637833, AI802240, AW020710, AW150762, AW163554, AL043152, AI866770, AI277008, AI363957, AI609236, AI289310, AI263331, AI225023, F34800, AI859464, AW008166, AI813868, AI345688, AL048644, AI445069, AI690389, AI566670, AI423105, AI251485, AI621341, AI473536, AI624056, AI539863, AI683099, AI811353, AI744256, AI540674, AI269242, AI354283, AW022682, AW102902, AI830259, AI884318, AW104056, AI874166, AL042544, AI872423, AI744485, AI625209, AI819106, AI648508, AW081449, AW079572, AI812015, AI587156, AW189716, AI873704, AL046618, AI828412, R36271, AI700159, AW007555, AI468959, AI285448, AI352184, AA502794, AW029197, AI624548, AW080079, AI540754, AI890628, AW004886, AI539847, AI911648, AI582932, AI638798, AW051059, AL047172, AI624120, AI499621, AI687166, AI589267, AI318280, AI829327, AW054931, AI918449, AI423326, AI240602, AI620075, AW023338, AW167083, AI355849, AI683590, AI634305, AI687287, AW024564, AI254042, AL046595, AI569579, AI589428, AW085786, AL040694, AI525669, H89138, AI573167, AW149878, AI933926, AI969655, AW020693, AW188554, AI348897, AI610402, AI679550, AA641818, AI273094, AI521594, AL037463, AI284034, AW081143, AI540458, AL038956, AI343091, AI340627, AI784252, AI866090, AI312210, AI345416, AW167918, AI500061, AI491710, AI345612, AW243886, AI335426, AI305745, AI832457, AI241923, AF111851, AB016226, I48978, AL137529, Y11587, I89947, AL137648, AF205861, U49434, AR038854, S75997, AL049283, AF111849, AL049464, AL117394, AL137480,

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HEONL06	8772	935516	1 - 402	15 - 416	AC006211.
HEONK37	8773	707505	1 - 467	15 - 481	H01559, and R27733.
HEONK10	8774	964757	1 - 328	15 - 342	AI159943, and AL109755.
HEONJ18	8775	575888	1 - 325	15 - 339	
HEONI92	8776	792772	1 - 589	15 - 603	T49908.
HEOMX03	8777	922962	1 - 592	15 - 606	AA812058, AA659324, AI582769, AA441788, AL041014, AA708352, AA572960, AL040800, AA810370, N32030, AA553439, AA649642, AI538540, AI445815, AI252506, AI139895, AW082744, F17700, AW265073, AI049831, AW028908, AA678436, AA904253, AI623899, AI270476, AI582890, AA601222, AI888405, AW272641, AA847741, AA810318, N64587, AW276984, AL119691, AA503600, AI623563, AA448838, AI028540, AI090334, AA599063,

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HEOMX01	8778	913683	1 - 545	15 - 559	AL049843, AC009248, AC004744, Z70274, Z97055, AC002300, AC005588, Z93023, and AL022334.
HEOMV61	8779	506231	1 - 513	15 - 527	AW263864, AI609972, AI708009, AA136526, AA501614, AI473838, AA584201, AL041706,

					AA862227, AW238542, AI343143, AA828696, AA587995, AW439480, D29019, AI925579, AI732690, AI929746, AI590442, AL133861, AI251576, AI929738, AA342945, AA579366, AI872503, AI307201, AW021886, AI278972, AW238583, AI366555, AI446821, AI734070, AI821467, H58672, AC008372, AC006064, AC002115, AL021937, AC004000, AC005153, AL132987, AL117258, AP000359, AF064861, AC009248, AL049829, AL031280, U91326, AC004678, AC005280, Z82194, AL035587, AC004699, AC004821, AP000512, AL008582, AC005726, AF109907, AL035249, AL049759, AP000555, AC007371, AC004765, AC008115, AC007182, AC008134, AL022326, AC005764, AL023553, L78810, AJ239318, AC005620, AL132777, L44140, AC006480, AC004638, AL031650, AL035410, AF196971, AL022476, AL031257, AC005803, AL033525, AC005695, AC007536, AC008984, U73634, AC004777, AL109628, AC005358, AL035450, AL020993, AC002544, AC003112, AC006312, AF165926, AC002073, U62293, AL031577, AC002558, AC003101, Z85986, AC005291, AL023574, AP000248, AC002565, AP000355, AC005531, Z83822, U95742, AL031728, AC004983, AC007312, AC007308, AC006285, AC006530, AC006077, AJ239322, AF001549, AC004859, AC004984, AF195658, AC005041, Z84572, AC005288, AC004835, AC004694, Z83844, AL022722, AC005562, AC006270, AC004148, AC004125, AC005197, AC006965, AL109627, AL035072, AE000658, AF001552, AC005353, AC005667, AP000466, U85195, AC002119, AC004810, AC007036, U95740, AL050318, AL096701, AC007560, AL096678, AC007738, AC005740, AL096791, AC005048, AL009031, AC009247, AL034549, AF117829, AC012384, AC007285, AC002375, AC005088, AC005839, AC007227, AC005725, AP000495, AC005911, AC004024, AC004751, AC006539, AC004878, AL031255, AC003108, AC004841, AC005182, AC008154, AC002563, AL031985, AL035681, AL022324, AB023049, AL049830, AL049776, AC004819, AL022313, AB016897, AC005599, Z98044, AC004596, AL133249, AC005261, AC005074, AL022320, AC005057, AP001040, AC004887, AP000494, AC005536, AJ003147, AC003119, AP000038, AP000106, AC007216, AC005004, AL133163, AC002331, AF053356, AL121923, AP000018, AC004477, AF038458, AL133245, AC006449, Z68756, X55448, AC007541, AL022160, Z83840, AC005529, AL121825, AL022318, AC005225, AL117337, AC004797, AF205588, Z97053, D87675, AL022721, AC005480, AC005944, AF196969, AB020863, AC002300, AP000557, AP000514, AC005332, AC004056, AL080243, AC003013, AL023879, AL049780, AL049757, AC004106, AC005971, AP000476, AF003626, AL050312, AP000556, AC005100, Z83838, AP000210, AP000132, AC005206, AC005940, AL049635, AC004687, AC005670, AC007324, AC005324, AC005696, AL132712, AF067844, AC005082, AC004895, AD000092, Z95331, AL021453, AC003086, AL021368, AL031281, AL049872, AJ229041, AL031670, AC007879, and Z82185.
HEOMQ68	8780	753075	1 - 270	15 - 284	T94453, and T94541.
HEOMQ04	8781	931032	1 - 848	15 - 862	N98652, AI718741, AI744439, D59305, AI192651, AI799507, AI185182, AI150851, AI367734, AI689723, N92449, AA070453, N62281, AA045938, AW129608, AA478529, AW250169,

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HEOML91	8782	667931	1 - 300	15 - 314	Z99716, AC004491, AC003029, AC003037, AC006071, AL049874, AF064866, AC006501, AF111167, and Z96074.
HEOML76	8783	575927	1 - 211	15 - 225	AA931871, and AC006211.
HEOMH63	8784	745146	1 - 416	15 - 430	AA018945.
HEICC56	8785	733383	1 - 154	15 - 168	H72530, N72717, W52505, R84302, AC005328, AC007136, AC004587, AP000694, AC005086, AC005562, AC005231, AC004104, AL024498, and AC004841.
HEIBB84	8786	781994	1 - 394	15 - 408	AA777270, AW207152, AA018758, AA019256, and AA620301.
HEIBB31	8787	697987	1 - 337	15 - 351	AA424812, and AW085011.
HEIBA15	8788	888667	1 - 414	15 - 428	
HEIAX24	8789	677177	1 - 358	15 - 372	AI365988, AW406755, AA587256, F29989, AI358229, AW193265, AI613280, F36273, AA482711, AW029038, AI284640, AW276827, AI350211, T58118, AI570261, AI431303, AI345654, AI281881, AW303196, AW274349, AI434695, AW438643, AW301350, AI334443, AI619997, AI270117, AA826303, AA649642, AI963720, AI918421, AI610159, AW265385, AW088202, AI299050, AI904894, AI254615, AA491762, AW327868, AI358571, AA503015, AA682912, AA653618, AA469451, AI039790, AA843450, AI564185, AA573020, AI358501, AA613227, AA559290, AI567076, AA610491, AI305766, AW270270, AL038785, AA525190, AA587604, AW103758, AA507547, AW276435, AW270702, AI249997, AL047427, AA586458, AI368745, AI801600, AI919265, AA503154, AA581903, AL044940, AI801482, H84783, AA259245, AI307608, AA503258, AW021583, AI732120, AI792518, AW080134, AI457397, AI434706, AI583612, AA810318, AW021207, AA846935, AW406447, AA657918, AW008952, AW071196, AI251436, AI053790, AI267818, T53607, AI890923, AW439558, AA483771, AW088846, AI049722, AW166815, T15977, AI929531, AA148489, AW419262, AA630925, AA837084, AA623002, AI567674, AI281903, N94233, AW304584, AI471481, AI355206, AI754658, AA491284, AI792505, AI688846, AW193432, AI339850, AI251002, AL037683, AI866856, AW238278, AA713815, AL138455, AI133636, AW162049, AW339687, AA515051, AI962050, AI937850, AA847499, AW023389, AL119691, H71429, AA062722, AI754253, AI083946, AW083402, AI886629, AA513141, AW062724, AI133164, AI446464, AI061334, AI635272, AA525824, AA482681, AA631507, AI358343, F28204, AA652057, AA488746, AI499503, AW440836, AI653886, AL048925, AA229785, AA501872, AA350859, AI368256, T29180, AA501614, AA348929, AA502963, AA503473, AI334435, AI250552, AA664407, AI654247, AW304805, AA669251, AI312309, AW020992, AA834667, AA113186, AW167799, AA099892, AW020141, AI251034, AI254770, AI589230, AA659083, AI192631, AW261871,

					AI903462, AA584145, AI469003, AA578918, AL046409, AA496260, AA640986, AI696962, AL138265, AI223626, AI568678, AI291124, AL044858, T08914, AA654771, AA857486, AL043719, AA569471, AI654588, AI298710, AW104748, AI345681, AI345675, AW302117, AW236342, AI284543, AI249853, AI890918, AI344844, AF015160, D83989, A39972, X55930, AF077058, U18398, U57006, I51997, AF015167, U57005, U57009, U18391, U18392, L35531, U18394, X55925, U18390, X75335, X54180, U18395, X55926, U57008, X55932, X55924, M37551, AC004647, U18387, AF015153, U57007, U18396, U18399, X55931, X54179, X54175, X54181, X54178, U18400, X55928, U67801, X55922, AF015156, AF015166, X53550, AC004019, AC007216, X55923, AL035681, AF015157, S75201, AF015158, AF015151, U12584, U12582, AF015162, U67221, X54177, AL022476, U12580, U95742, AC005971, AF015171, AL031662, AC000097, AF015148, AF015169, AC007666, Z22650, S48196, AC006547, AC005778, AF015149, X55927, L47228, AF015170, U57004, U11309, AF015147, AL031257, AC005069, AC016025, AC005566, M96868, AF015150, AC004854, AC004802, AF019114, AC005736, AC002984, AL031274, AL023879, U02532, AL049776, U67831, AC005081, U67231, AC006441, AC008134, AC006040, AC004224, AL049757, AL135744, AC001231, AC006481, AC005747, AP000966, D88268, AC005048, AL049636, AC007151, U67234, AC007773, AP000567, U02507, AL035071, Z49816, U14718, AF015168, AC008033, AC007043, S43650, AC004139, AL021391, AF015165, AC005841, U14719, Z84480, U67832, AC000052, AC004967, AB023049, U12581, AP001043, Z82180, X74558, AC005531, D87008, AC007227, AC007064, Z98050, AC002395, AL109759, U35114, AL080243, U50570, U14713, X96421, AC010197, AP000023, S75337, AC004417, U02531, U18393, U14714, AC004947, AC004812, AC005520, AC000353, U67229, AD001527, AL035423, AC004686, AJ229042, M87919, AC003109, AC005354, AL031256, AL031121, U67825, AF064861, AC006030, AL031904, AL031282, AC005084, AC005924, AC004668, Z93241, AC007447, AC005544, U67233, AC000004, AC007363, AC005280, AC003003, AC004263, AL121934, AL080276, U14711, U14712, AC004408, AC004889, AL050097, AL049635, AC005064, AC004913, AL031073, AP000275, U91322, AC005231, AC016026, AC004534, AC004918, U67211, AP000512, AL078472, U67235, AC008039, AC006305, AC004890, AL035415, AF064863, AC000083, AL033543, AP000432, AC006548, AL078644, AC004544, AC005257, AC002364, AC000075, U14715, AP001172, AL031255, Z97876, AF135028, AC004066, AL008582, AP000105, AP000037, AP000513, Z93023, AC004894, AC006285, AC002128, AF010238, AL022316, AC012599, AC004838, U67226, AL035089, AL133382, AL035659, AL136295, AC004964, AF110324, AF015725, AC004671, AC006312, AL049764, AC005756, and AP000252.
HEIAX11	8790	967272	1 - 412	15 - 426	AI951431, and AW166781.
HEIAU39	8791	861503	1 - 354	15 - 368	AW291698, AW449355, AA077663, and AI624833.
HEIAR07	8792	953626	1 - 396	15 - 410	AA160979.
HEIAJ39	8793	705643	1 - 388	15 - 402	AA262593, AW055245, AA765419, AI268356, and AI919028.

HEIAI86	8794	785680	1 - 200	15 - 214	T52922, T52923, and AC005368.
HEIAD76	8795	574163	1 - 267	15 - 281	AI355103, F23338, AA503307, AA503142, AI246996, F34506, AA484892, AA507814, AI791659, AA523695, AA365586, AA720582, AI031759, AA587316, AA745524, AI590442, AA714011, AI053673, AA744001, AW304592, AA504951, AA779783, F09355, AI251429, AI580707, AI818362, F17700, AA311357, AA810158, U73647, AC007227, AF196969, AP000501, AC002347, AI031905, AP000300, AP000045, AP000113, AC005632, AC006050, AC007016, AC007536, AC005829, Z95152, AL049548, AC004815, Z69837, AC006965, AL121595, AP000248, AC001228, AL050307, AL049569, AC005914, AC002551, AL133163, AP000555, AC006088, AC004985, AC005516, AL008718, AL109984, AC007435, AC005701, AC002369, AC006505, AC006312, AL023575, AC005375, AP000260, AC006011, AL020993, AL022316, AC005104, AC006077, AF111168, AP000099, AP000116, AC002126, AC008928, AF002223, AP000036, Z99496, AC002316, AC005520, AL021154, AC006241, Z93024, AL049760, AC008115, AC007899, AL031597, AC006455, AP000500, Z84466, AC002425, AP000141, AC005102, AL022326, Z97056, AF207550, AC005587, AC005015, AC007055, AP000088, AC002364, AB023049, AF049895, AC006511, AC006344, Z95114, AL121923, AC005180, Z84480, AL034417, AC004129, D87675, AL022721, AC005089, AC004752, AC004893, Z98200, AC002554, AC005531, AC005231, AL031295, AL117258, AC004674, Z83826, U29953, AC005616, AC016026, AC005544, AC009336, AC004933, AC007292, AC003003, Z95113, Z81364, AC004522, AC005332, Z93017, AC003042, AL049643, Z84469, AC006121, AL133246, AL035588, AC006930, AC004526, AC006409, AL022165, AC004851, AC004876, AC005837, AL034371, AC004811, Z97630, AC007993, and AC004844.
HEIAC62	8796	745672	1 - 245	15 - 259	AP000011, and AP000153.
HDTMJ27	8797	851806	1 - 498	15 - 512	AA434364, AA631736, AI051874, AA460723, AA502498, AA471086, AI025722, AL132985, AC004447, AC005261, AL031432, AC004560, AL079305, Z83838, AC004030, AC005776, AC005387, Z70050, Z73986, AC007240, AC011604, AL031782, AC004821, AC006222, and AP000164.
HDTLI05	8798	928253	1 - 488	15 - 502	AA769122, AL044520, AL042431, AA648784, AI208877, AI024841, AA804545, AW340113, H82877, R64372, R64371, and AL137391.
HDTLE28	8799	851830	1 - 454	15 - 468	AA916035, AI246061, AI054090, AI249853, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, N74027, N71579, T60940, AA687542, AI251241, AI223626, W63553, AW303098, AA434346, AA636102, AA827383, N22153, AW073498, AI929410, AI753672, AI750950, AW167909, AW407585, AW019964, AW410286, AI018726, AI860535, AA365893, AL039309, AA468289, AI732682, AI720943, AA653823, T08386, AA133472, AA714073, AI927261, H86579, AA448050, AW089950, AA211734, H43183, AA665304, AI354369, AA018923, AA012829, AI039930, AA559166, AI902426, AA741301, AA094597, AI570805, H63220, AA169234, AI755057, R68503, R99581, AL138065, AW082076, AA527109, T74259, AI174703, AW057873, AA657910, AA179981, AA837796, AI537020, AA084950,

R48980, AA564753, AA411590, AA688266, AA256107, AA599749, AA856866, AA743968, AA837739, AA513884, AA610374, AI133580, AA386055, AA527954, AA429481, AA214457, AA605020, T03928, AI355559, AW238495, AL037006, AW274525, AA748102, AA593036, AI298079, AA515351, AA704037, AI087843, AA424249, AI348467, AA736713, W60035, AA135988, C14599, AI084424, AI871691, AI284105, H30595, AI471455, AW392887, T06518, AI671077, C14576, T03401, AL037777, AA502230, AW082742, AI989742, AI687343, AI459866, AA744095, AI124779, C14880, AA678950, AI761566, AA282231, AI799421, AI434365, H24957, H45806, AI201668, AA501371, AW407632, AI383965, AA321523, AA227858, AI399872, AW151761, AA077796, AA572743, AL031685, AL096712, AP000501, AC002350, AC005952, AC004383, AC020663, AC008085, AL031728, AL021808, AC005920, AC004922, AC002565, AC005815, L44140, AC005926, AB020874, AC005004, Z95115, AC004849, AC006116, AL031659, Z83851, AF064859, AC004000, L78810, AC005088, AC005971, AC002477, AC005666, AC007308, AC002470, AL031255, AC004874, AC004913, AF196969, AL031132, AL035659, AC010197, AC002070, AC005821, AC005015, AF165142, AC006021, AC004132, AC007685, M15366, AC005328, AF196970, AL049694, AL035086, AC006057, U58047, AC003689, AL035249, AC007533, AC006263, AF181896, U72788, AF030453, AC003029, AC007051, AC005181, AC007225, AP000503, AP000067, AL034427, AC005903, U95741, AL008582, AC002483, AL031666, AL008730, AC004941, AC005375, AL035070, U95743, AL139054, AC004682, AC004051, AL031602, AL022320, AL021879, AP000065, AL021393, AC008044, AF165926, Z97054, Z94277, AB014460, AC003030, AC005600, AP000201, AC004934, AP000097, AC004056, U91323, AC004801, AC005386, AL109628, AC007100, AC006070, AF116548, AF029062, AB000876, AC004181, AC004560, M89651, AC005210, AP000230, AP000506, AP000144, AC002394, Z85987, AL035587, AC003007, AL109967, AL132712, AC004999, AL031670, AC006001, AL021578, AB000882, AC002543, AC005184, AL049712, AC005531, AC006083, Z98884, AC005225, AL022721, Z98949, AC004963, AC004491, AL080243, AC006538, AC003685, AL022476, U85195, AF111168, AE000658, AF015262, AJ229043, AP000362, Z98751, AB016625, AC004628, AC008975, AL031575, AL008725, AL023575, AL031230, Z97989, AC005585, AC004832, AC005224, AC007736, AC007066, AC004125, Y10196, AF023674, X54486, AL049849, AL031447, AC005630, AC012085, AP000240, AL133445, AL133275, M33132, AP000319, AP001064, AC000075, AC003072, AC000084, AD000091, AC002491, AC006277, AC006942, AB015355, AC005778, AC005619, AL121923, AC004656, AP000228, AC003678, Y07848, AC005067, Z73358, AC004975, AL031594, AP000167, AP000052, AP000120, AC002375, AC005663, AF155238, AD000092, AL008583, AP001065, AC004815, AL031657, AC004638, AC006251, AC000026, AC004876, AC007114, AC005664, AC004477, AL022398, Z97205, AC007388, AC002059, AF196779, AC005722, AF002223, Z99943, AL136295, AC005209, AC005387, AC004685, AC006543, Z98044, AC005670, AF027390, AF217403, X77825, AL049713, AF134726,					
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HDTLB90	8800	969209	1 - 721	15 - 735		AI341704, AI142398, AA813273, AA743887, AI936676, AI075351, AA910854, AI022782, AI147388, AA707809, AI191594, AW149648, AI359585, AA310281, AI189686, N66573, H08536, AI262892, N95604, AA741331, AI248487, AA868324, W02990, N22795, AA262629, AA609701, AI093401, AA659738, H87698, AI027373, AI027121, AA978057, AA983525, N48015, AA720012, AA447262, AI356159, R59460, AI678874, AI952101, T34018, AI142529, AI690064, AA441994, AA92142, N35367, AI187027, AI241750, AA768375, AI079205, AA447137, AI569001, AI860552, AI826993, AI306687, AW080519, AI381210, AI582792, AI040724, AA243615, AI004382, AA586674, AI336096, AI241252, AI591409, AI499068, AW026852, H08537, AW008824, AI123841, AA627439, N72902, AI369126, AI611839, W73025, AI336409, AA441993, AA837530, AA806979, AI886595, AA301661, R59400, T35913, N98833, T25882, W25044, T31881, T81454, H87190, R27910, AI560041, AI560047, T25881, AA723754, AA436622, R27815, AA748322, T81453, AA680083, AI348535, AA861174, AA687982, AA336442, H86836, AF161514, and Z57379.
HDTKX61	8801	806340	1 - 657	15 - 671		AL040934, AI354583, AI811104, AA102590, AI955210, AW005356, AI923908, W72822, AI869691, AA776240, AI097401, AI241672, AA610244, AI136144, AA432194, AW029577, N57854, AW026450, AI913174, AI439590, AA676743, AW173719, AI912350, AI126189, AI246619, W15338, AI573143, N62095, AA632265, AW262961, AW338014, AA599002, AW080405, AW342043, AW170642, AA977345, N57753, AA809373, H24394, AA046519, AA648676, AA159091, AI032839, AA136030, AA583776, H28894, AA848077, F33112, AA910294, AW016492, AA678502, AI916065, N88118, AA350391, R44633, AA082176, H03994, W72821, AW166715, AW149167, H45880, N78326, AA046611, R44522, AI245126, R16997, H03195, AW021036, AA355730, AA598543, AI873982, AI203820, AI559841, H27347, AI590119, AA724015, AI243914, N76000, AW271164, AA482202, AA344508, H28893, H62505, AL117455, and AC004466.
HDTJP10	8802	963456	1 - 606	15 - 620		AI355562, N27028, AA501942, AA365628, W32376, AA365629, AI733856, AW069227, AA847499, AI634187, AW328331, AW023111, AW327624, AA410788, AI791185, AI457313, AA526683, AI284640, AI859438, AI821076, AI056177, AW069769, AA904275, AW341903, AA630854, AI287766, AI491765, AA502991, AA584489, AI254770, AL046409, AA581903, AI079734, AI755214, AI754567, AA228778, AI114557, AA535216, AA515351, AI284543, AI431303, AI754105, AI282479, AW407578, AA809546, AI251034, AI223626, AI250552, AW085751, AI251284, AW271904, AI963720, AL135377, AA669155, AI923050, AA833875, AA833896, AI186438, AI912401, AL047349, AW193265, AW026305, AI133552, AI457397, AW303098, AI305766, AI251203, AI421950, AI419337, AI114733, AW265688, AW023672, AI249853, AW303196, T74524, AI310670, AI199816, AA513851, AW419262, AI049676, AI278440, AI277373, AI284126, AI133164, AW029515, AI587349, AI473995, AW274349,

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HD TJF29	8803	887186	1 - 676	15 - 690	AI250783, AW391672, AI240525, AW390571, AW391632, AW392670, U46347, AL119324, AL119457, AL043003, AL119484, AL119399, AL119439, AW384394, AW3633220, AL119319, AL119443, U46351, U46350, AL119391, Z99396, AL119363, AW372827, AL119497, AL042544, AL119355, U46349, AL119522, U46341, AL119444, AL119483, AL119418, AL119396, AL134530, AL134519, AL134528, AL119341, AL134531, AL037205, AL119401, AL134132, AL134527, AL043147, U46346, AL119335, AL134533, AL119464, AL042542, AL119496, AL134538, U46345, AL042614, AL043019, AL042989, AL042450, AL042984, AL042965, AL042975, AL043029, AI142134, AL042551, AB026436, AR060234, AR066494, AR054110, A81671, and AR069079.
HD TJF05	8804	931977	1 - 589	15 - 603	AA425488, AA496895, AA300351, H55595, AP000556, and AP000557.
HD TIO74	8805	933606	1 - 520	15 - 534	AW293197, AW293194, R09230, AA550736, and AA210814.
HD TIO16	8806	934151	1 - 708	15 - 722	W26496, N57723, N52977, AA004838, H56093, N32636, H54711, R97812, AA422017, AI434982, R34827, AI365246, AW149465, N53236, R97527, W04839, W27301, W17360, AI952152, AW197683, AW300911, R93262, AI627239, AW368243, AW118723, R81605, AW301730, AA347582, N42589, AA521269, AA279227, N35846, N55666, AA279276, AW207386, AA744257, AI791321, AI791441, AA401856, W73744, AA912709, W32659, AI457999, AA035799, W73796, AW149460, AI952156, AA825542, AW043735, AA279170, AA843886, AI004999, AI204320, H43539, AI928422, AI453601, AA628709, AI887910, AA814386, AI138354, AF072880, AF112205, AL110243, AF106683, AF069313, AL110269, AF033186, AF106684, and AF147442.
HD TIG62	8807	851951	1 - 500	15 - 514	AA700898, AA768022, AA813637, AA737687, AA767493, AI590110, and AC004585.
HD TIA48	8808	851944	1 - 760	15 - 774	AI686160, AA758552, AI051885, AL039783, and AA890108.
HD THU79	8809	774217	1 - 570	15 - 584	AA284279, AI027731, AI200797, W47103, W47227, AI693941, AW298283, AI222304, AA815341, AI216510, AA813403, and AF086197.
HD THS05	8810	926048	1 - 887	15 - 901	AA253336, AA252921, AA253337, W22197, H27708, R53233, M85815, AA428556, AI745023, AW367630, AA922917, AW363034, AA705731, H66556, AI952500, AA676981, AA640067, T31521, R02288, H70507, AA011599, AW089024, AW368517, R59789, AA298276, AA878199, H91633, R06356, N99822, and AB018271.
HD THP45	8811	841796	1 - 436	15 - 450	AC007458.
HD THIO2	8812	918728	1 - 468	15 - 482	AA441986, AA441987, AI051488, AL119444, AL119363, and AL134538.
HD THG69	8813	754464	1 - 347	15 - 361	R05736, and AC001226.
HD THE32	8814	851964	1 - 686	15 - 700	AW295293, AA005236, AW293791, AA564263, AA005235, and AL024494.
HD THA77	8815	771334	1 - 594	15 - 608	R54682, T83899, AA028933, T86103, AI700021, and T83729.
HD TGT62	8816	742828	1 - 479	15 - 493	RI0737, RI0755, and AW206939.
HD TGQ31	8817	697539	1 - 368	15 - 382	W57998, AA082443, AI979163, N50386, AA730309, AA282104, AL046056, and AF191338.
HD TGH10	8818	963966	1 - 399	15 - 413	AA968621, and AA911679.

HDTGC27	8819	682687	1 - 417	15 - 431	T84741.
HDTFX46	8820	915075	1 - 489	15 - 503	T91421, AI244540, W95696, AA513866, and Z69706.
HDFT42	8821	713399	1 - 552	15 - 566	AA251180, and AA284335.
HDFT93	8822	792077	1 - 654	15 - 668	R56502.
HDFTN38	8823	706752	1 - 592	15 - 606	N67992, AA018753, AA216176, and AC007283.
HDFTI27	8824	682705	1 - 635	15 - 649	AI424830, AI457466, AI670852, AW188237, AW339932, AI373737, AW299809, AW299801, T65024, AI215514, AW268571, AI275416, AI806477, AI420494, AI431933, AI697604, AW194622, and H18633.
HDTFG15	8825	913812	1 - 518	15 - 532	AI948523, AI870933, AI056919, AI951357, AI669067, AI421240, AI829531, AW026102, N95469, AA761710, AI422906, AI985084, R39935, AI500548, T58434, AI971673, AI620958, AI368450, AA825904, AI950288, T58466, T16707, AA903364, AI648626, AA262655, D25575, C21036, and AA255726.
HDTEI62	8826	587822	1 - 753	15 - 767	AA038837, H85875, AA866204, D62678, and AW023681.
HDTEJ57	8827	872215	1 - 462	15 - 476	H14223, and R90827.
HDIDS89	8828	799881	1 - 258	15 - 272	AL121748.
HDIDS44	8829	799863	1 - 430	15 - 444	
HDIDP20	8830	833680	1 - 412	15 - 426	T11249, AF207598, AF157833, AF205065, and T11264.
HDIDP02	8831	919572	1 - 436	15 - 450	N46884, AI741360, AA677764, R10708, AI751761, AA694111, AI333381, AW305001, AI538973, N71175, AA779766, AI589032, AI086570, AI761580, AI885734, AW131854, AI028092, AW054930, AA843208, AI188410, AI457118, AW338608, AA574231, AA224194, AI221082, AI149382, AA918408, AW166459, AI332782, AI183618, H46974, AI359210, AI969702, AF151872, and AL110239.
HDIDL15	8832	851999	1 - 405	15 - 419	AW119198, AW268984, AW291411, AI699375, AI538081, AI880221, AI989588, AA936261, AA744022, AA744306, AA744319, and AA744343.
HDIDJ44	8833	587742	1 - 521	15 - 535	AI003653, H92228, AI370273, AA708248, AA018367, AA069415, H85653, H86634, and AA017687.
HDIDG89	8834	799870	1 - 403	15 - 417	
HDIDD88	8835	615173	1 - 426	15 - 440	AA496215, AA196044, U53093, AA496217, AA055124, AA055135, and AW387762.
HDIDD72	8836	587710	1 - 520	15 - 534	AI459473, AI065079, AI207423, AI064695, AI133218, AI133420, AI133314, AI061660, AI064797, AI888487, AI037870, AI037849, AI048429, AI884494, AI833147, AI717995, AI709394, AI832355, AI924211, AI720552, AI653760, AW007608, AI064831, C18852, AA669077, AI174665, AA468404, AI750150, AA533828, AI133004, AA659265, AA594949, AI037048, AA630170, AI912529, AI434498, AI459425, AA575977, AW275829, AA886596, AI215649, AW270021, AI124928, AA578589, AA548849, AI832732, AA098789, AI628930, AW004905, AI720986, AA630251, AI683207, AW149630, AA886490, AA595864, AI028073, AI880409, AW188463, AA075342, AI635477, AW168232, AI720912, AI133259, AA226261,

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HD1DD70	8837	757088	1 - 453	15 - 467	R07618.
HD1DD67	8838	754739	1 - 458	15 - 472	AA358812, AA308023, and AA419289.
HD1DD15	8839	668754	1 - 415	15 - 429	AI018089, AA488552, T30640, T71401, W31697, W19918, AA165100, R08686, H78637, N90337, T99588, Z41909, W25292, AA165080, R79674, R34212, N77082, N78438, AA150886, T82168, T85462, R77046, W56864, H95034, AA888217, R19848, AA314539, W25298, AW408479, AI114871, U83194, and AF121856.
HD1DC74	8840	799868	1 - 501	15 - 515	
HD1DC64	8841	799871	1 - 424	15 - 438	
HD1DC38	8842	706741	1 - 613	15 - 627	R00207, R08120, AJ001417, and AF078749.
HD1DC30	8843	692063	1 - 276	15 - 290	H09128, AW276933, N51140, AA321595, AA975915, AI273675, AW183603, AI268564, AI138918, AA741020, AI371804, H20669, AA446782, AI041398, AI798242, AA720913, H30560, AA721582, AA828045, AA831638, AA774960, R95030, AA528688, AI610376, N47882,

					AA502568, F37052, AA507991, AW189401, AW192518, AA524846, AA745459, AA744068, AA548382, AA491424, AA056461, AA658179, AA652771, AA532512, AA372106, AA402269, AI357815, AI917891, R62497, H56521, AI494481, AI039451, AA354695, AL138252, AA402638, AA340911, AW072587, AI184354, AA128509, AA092704, H04195, AA362372, AL040324, AL118573, AI348611, H03398, AL045954, H03415, H87153, AA594061, AI085270, AA601460, AA088697, AA228381, AI760835, AA677939, Z94801, AL050332, AC006978, AC007349, AC004552, AC002378, AL133243, AC007221, AL031657, AF227510, AL031602, AC006965, AC007314, AC003043, AC004884, AL031650, AL050317, AL020995, AC007225, AL133163, AP000104, AC004383, AC005696, AL049569, AC002542, AL035458, AC004887, AL023804, AF064861, AC002302, AC002400, AC004857, AC002549, AC008078, AJ003147, AL049745, Z98036, AC006312, and AC004526.
HDTDB37	8844	587699	1 - 719	15 - 733	AA018755, AI332451, R45788, and AA247911.
HDTDB21	8845	587700	1 - 699	15 - 713	W57976, W58117, AA642370, and AC005332.
HDTCC55	8846	934923	1 - 1574	15 - 1588	W37285, AI680188, AI691024, AA258999, AA088201, AW410652, AI694271, AI016276, N76343, AI278104, AA496721, AI765185, AI078368, N54377, AW206705, AA708774, AI193198, AA708517, AA689584, AI467892, AA745781, AA189110, AA843476, AA258177, H65702, AA707076, AW071574, AI092665, N49617, W37798, AI240773, H73843, AA188896, H65703, AW075591, H73169, N68588, AI683084, AA279200, AI224604, AA894491, N46923, and AC007253.
HDTCC01	8847	916455	1 - 660	15 - 674	AI026818, AI144071, AI370045, AI311520, AI308578, AI334555, AI521589, AI952780, AA643261, AL080011, AA834534, AI862385, R81679, AA828045, AA360609, AA133293, AI671661, H90114, AL118912, T51942, AI560119, AA420729, T94072, AA809186, AI332671, AA535483, AW189804, AA721581, AW167202, AI679747, AL137705, AL110280, AC004883, AC004966, AL117337, AC004987, AL021393, AP000020, AC007390, AC002365, AL035420, AP000355, AC004686, AL137479, AC005086, AC004690, AL031732, AF113694, AD000813, AL022318, AF196779, AC005902, AC006561, Z77249, AL031984, AP000133, AP000211, AC007993, AP000504, AL035458, Z83820, AC006241, AC012085, AC005940, AF205588, AC005225, Z99297, AL022320, AC002314, AL031295, AC005920, AL033397, AC002563, AL121603, AC006059, Z83838, AL034400, AC005291, AC002477, AC007172, AC007308, AF109907, AL035461, AL008637, AC004383, U62317, AP000013, AC005520, AC004808, AC005091, AL035587, AL049795, AC005015, AL049872, AC002312, AL035407, U91323, AC000026, AC006112, AC005320, AL034417, AF179633, AL031230, AC007262, Z96074, AF042090, Z94721, X87344, AC003101, AP000344, AF196972, L78810, D84401, AL022316, AL022165, AL021155, Z49258, Y07848, Z92542, AC005924, AF095901, AC004560, AC005527, AB023053, AC002287, AP000556, AC002527, AP000250, AP000030, AC006236, AC004822, AC004841, AC016027, AC004513, U95739, AL021407, U80017, AC005911, AC020663, AL117339, AC005207, AC005488, AC004659, AL031281, AC005670, AL023284, AF129756,

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HDTBZ83	8848	842950	1 - 441	15 - 455		AI652677, AW374334, T08905, and AF196972.
HDTBV06	8849	935393	1 - 476	15 - 490		AI199248, and AC002076.
HDTBU73	8850	764410	1 - 707	15 - 721		R08992, and AA029661.
HDTBT35	8851	706730	1 - 786	15 - 800		N32495, N94866, AI239947, AA714897, AA400836, and AA639185.
HDTBS91	8852	789425	1 - 541	15 - 555		H20657.
HDTBS45	8853	591589	1 - 450	15 - 464		AA777234, AA705296, AI240824, AI982752, R07024, R07066, and AL110235.
HDTBR39	8854	705350	1 - 768	15 - 782		AA460387.
HDTBP84	8855	783024	1 - 488	15 - 502		AI767149, AA494182, AI927682, N74958, W05656, AA603309, AA747756, AI249573, AI433008, N49368, AA486131, AA349927, AI271126, AA661921, AI040342, H71429, AA279421, AL041619, AA490183, AL138455, AA838190, AI345157, AA584805, AI284640, AA618452, AW275510, AA984295, AA834707, AI270117, AL037683, AI694130, AW084466, AI963720, AA635739, AI580250, AI687343, AI700109, AW023865, AW069769, AI583283, AI953275, W45625, AW302903, H52274, AW102846, AI370074, AL045053, AI307608, AA634889, AI696962, AW088846, AA747070, AA584692, AA216412, AW264934, AL119713, AA101689, AW021735, AA179045, AL042420, AW024042, AI027459, AW169038, AI084294, AI821494, AA613397, AA613591, AI031973, AI950983, AI217937, AA493695, AW235497, AW072487, AA584167, AI393931, AI305766, AI744826, AI805363, AI217936, AW163293, AW168618, AL046205, AF034184, AI370094, AW021597, AI431303, R24887, T41247, AA601673, AL038705, AW263415, AA811710, AI799642, AW149156, AC004030, AC004626, AC005066, AL049766, AF091512, AL021707, AC006041, AC002067, AL109865, AL080250, U95742, AL121603, AC003691, AC004933, AC005914, D83989, AI031665, AP001172, AC003101, AC004979, AC007590, AC005541, U02531, X55925, AC000354, AP000228, AC003119, AP000140, AL078604, Z82210, AC006155, AL035410, AP000088, AC006459, A67988, U67231, AF135028, Z69666, AF061032, AC006537, AC004232, AL031300, AC005387, AC004204, AL035402, AL035462, AC004940, AC008168, AC003692, Z98046, AC004901, AL008728, AL023755, AL121591, AC002564, AL022322, AC005998, AL035608, Z78022, AL035659, AL049544, AC007043, AL022163, AP000365, AC004987, Z98753, AC004028, AC004130, Z86061, AF227510, AL034452, AC003075, AC005026, AC004638, AC005048, AC003683, AP000548, AL096861, AC003977, AC004592, Z94721, AC004861, AL049649, AC004069, AL031904, AC002430, AC004691, AC004690, AC006998, Z84469, AC006058, AL031311, AC008033, U91326, AC007214, AF042090, AC006512, AC005242, AC006213, AC002549, AC005220, AL023284, AC010202, AC007384, AL049834, AC010170, AC007514, AP000962, AL133445, AC006045, AL031123, AC005291, AC007298, AF001549, AC006288,

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HDTBM53	8856	727526	1 - 138	15 - 152	AC005666.
HDTBM31	8857	697918	1 - 514	15 - 528	AI668673, AI668675, N93503, N93496, and AI734225.
HDTBK62	8858	742603	1 - 208	15 - 222	AA568869, AA515334, AA661921, F12561, AA689526, AI580250, AW002350, AW149313, AI873990, AI524360, AI583283, AA468022, AI864632, AA468131, AA724333, AA580808, AW438643, AA468244, AI247199, AA483771, AW168618, AW196064, T89972, AA063173, AA526536, AA828749, AI824706, AL036037, AI919265, AA501762, AW274349, C04454, AA577959, AI284640, AW438853, AA857486, AI873852, AA482681, AA526758, AA665199, AW303196, AA491797, AA467820, AW264934, AA595499, AI431303, AA535406, AA309530, AA812281, AA644070, AI801482, AW301350, AW193265, AA490183, AA526779, AI350211, AL119691, AI636730, AA515905, AA847516, F29184, AL044858, AW408047, AI003751, AA526630, AI305766, AW270382, AA782304, AW023990, AL120933, AA113182, T51054, M86120, AA469451, AA679532, AL046409, AA579366, AL047427, AA618206, AA188664, AI345157, AI889388, F17891, AI613280, AA631507, AL048626, AA602047, AA502103, AI610435, W45625, AW407578, AA650208, AA584201, AL042853, AI358431, AI754658, AL119724, AI860013, AI869406, AI687343, AA847622, AA516226, AL118991, AW050734, AA225072, AI797903, AW074419, AA581903, AA828042, AI816141, AA569471, AA362511, AA505854, AW270258, AW328171, AW327868, AA629992, AA584805, AI281881, AL120269, AW103758, U57005, U18388, U57008, X54179, I47228, X55929, X55933, U18390, X75335, U67825, U18400, X55925, U18394, U18395, U57006, U18392, U18398, U57009, X55927, X74558, U18391, X55931, U67826, I51997, U57007, U18393, U18387, U57004, X55926, X55923, X54177, X54180, X54178, AF015148, X55922, D83989, X54181, X54175, X76666, AF015149,

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HDTBG80	8859	916167	1 - 821	15 - 835	AA075174, AA780368, AA608609, AA116112, N23422, AA426183, AA919127, AI051104, AA778513, AA861163, AI263419, AA844710, AI308998, AI016753, AI146269, R89012, AA875826, AI334311, AA832331, T66141, AA890409, AA594107, H57164, W47366, W93467, AA447722, AI276282, T58760, AA805142, AI150612, AI660146, AI271554, AI306121, AI911815, AI223452, AA417020, N56558, AA553689, AA424729, F09765, AI193223, AA972680, AI07534, AA748812, AA860315, AA116113, AW136275, W47365, AA740503, AA447882, AP000223, AP000085, and AP000086.
HDTBD67	8860	899636	1 - 2233	15 - 2247	AW242597, AW069086, AI148152, AI125778, AI431242, Z99396, AW392670, AL044652, AA362688, AL134524, AA362689, T29199, AA362690, AW372827, AL119522, AI432646, AL119457, AL119324, AL119319, U46351, AL119401, AI431305, AL042551, AL119484, AL119391, AL043019, U46350, U46347, AL037205, AW384394, AW363220, AL119418, AL119497, AL119355, AL119363, U46349, AL119439, AL119443, AL134525, U46341, AL119444, AL119483, AL119341, AI142139, AL119396, AL134536, AL042544, U46346,

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HDTAU14	8861	658429	1 - 219	15 - 233	H91918, AL137201, and Z84572.
HDTAT80	8862	911928	1 - 2399	15 - 2413	
HDTAP53	8863	728216	1 - 338	15 - 352	H48102, W39066, N57359, H53255, H63515, H70625, N54141, R96510, N57848, R97064, AI653538, AA745302, AA502532, AA080892, AA338193, D82544, T63054, AA373861, F08866, AA579188, AA356249, AA295039, AI270177, AA282951, AA525379, AA297698, AW419389, AA018517, AI917132, AA308598, AA975894, AA805018, AA715418, H86665, AA808847, AA568314, AA055987, AW243884, AA481887, AA180781, R96427, AI336026, T50251, AA808843, AA610433, R48980, AI918419, AA411590, AA909816, AI273148, AA678845, AA420691, AI742168, AA583579, Z97053, AC006011, AC007225, AP000555, AC005412, AL109758, AC006449, AL049569, AP000087, AC002425, AL024498, AL133448, AC005874, AF134471, AL117258, AL031291, AC007308, AC005753, AC006088, AC004408, AC000085, AL021920, AF196969, AC005399, AL109984, AC005071, AC004883, Z95152, AC010202, AC007066, AC007388, AC005330, AC002369, AL049694, M89651, AC005632, AC006130, AC008040, AC005048, AC002350, AC007637, AL009178, AL133163, AD000092, AL121769, AC002300, AC004805, AF172277, AP000694, AC005011, Z83844, Z83826, AC004933, AB023049, AC005696, AL021154, U80017, AC004996, AC002351, AL035072, AC008126, AC006001, AC008928, AC007917, AF001550, AC000353, AC005089, AC004841, AC005520, AC005726, AC005009, AC005828, AF165926, AF001548, AC002059, AC006160, AL109801, AL031003, AC004985, AP000700, AC005480, U85195, AF107045, Z97832, L78833, AL035417, AL022311, AL132712, Z84469, AB000882, AL031311, AC004019, AL022238, AL031666, AC006312, AB016897, U52111, AC004560, AL022343, AL035587, AC004923, AC004922, AL049795, AC007860, AC002040, AC004851, AE000658, AC004447, AC007565, AC005037, AL133245, Z84466, AL031848, AC004000, AL121825, AL136295, AC004967, AP000269,

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HDTAH15	8864	840327	1 - 703	15 - 717		<p>AA151989, AA053806, AA877780, AI990954, AI761757, AI884981, AI359275, AA883559, AA029799, AI334302, AI927450, AI885711, AI401339, AI418850, AW089486, AI147258, AW007192, AW291421, AI423057, H92988, N21120, AA115357, AI400311, AA114858, AI052732, W78047, AA291538, AI458414, AI222211, AI568379, AI887327, AA526168, AA827153, AI127813, AI351870, AI400322, AI093742, AI148093, AI129777, AA479087, AA114856, AI082454, AA993306, AA419256, AA977759, AA885007, AI689072, AI085769, AA401889, AI225066, AA115236, AI359661, AI289273, AI582790, AI569549, H37803, AA193281, W81178, AA115458, AA293486, AA953381, AI084597, AW438966, AW300931, AA152074, H80087, AA115479, Z39506, AI423394, AI095106, AA916116, T79202, AA428124, AA479241, AA256520, AI571788, AA778279, AI474234, R94519, AA114855, AA634164, AA114857, W79466, AA593584, AA992871, AA031498, AI659464, AW339599, AI868579, AA614435, AW169783, T30237, AA035792, R06984, AA258598, H78840, T30871, H94218, R93668, AI873150, AA031544, AA258627, T79289, N31135, AI802277, AA302935, AA256627, AI015755, H37853, AA321801, AI828773, and AI953237.</p>
HDTAE60	8865	810259	1 - 306	15 - 320		<p>AA905241, R07845, AA484618, AA876674, AA927025, AA969580, AW015956, F27760, AI560279, AI077875, AA657632, AW274260, AI130748, AA531437, AA888258, AA926970, AI344732, AI039009, AI832645, T25895, AA664996, AI309287, AA244132, AA541603, AW363453, AW363455, AW373552, AW373548, AW363452, AI150756, F30920, AI289147, AI537640, W80487, AA780729, AA603795, AA864997, AA524049, AI023676, AA947143, F20520, AI911004, AI000638, AI283651, AA704855, C04467, AA694524, F22719, AA534561, AA694164, AA627396, F27644, D59538, AA318284, F33783, F33364, AI686496, F27676, AA903996, AA244131, F35313, AW373558, T74772, F33405, D51606, AW363451, AA730436, AI749712, AW363456, F30071, AI708982, F24555, N80149, F27522, R98804, AA317435,</p>

					F30100, F34894, F22313, F35771, F33982, AW373549, AA096277, AA327732, AC008044, and AC008372.
HDTAE44	8866	799902	1 - 397	15 - 411	F07105, and AL080219.
HDTAE29	8867	780991	1 - 435	15 - 449	AA292713, AW170280, AI091066, AA112320, AA740290, AA469117, H07025, and AA632483.
HDTAE16	8868	661997	1 - 425	15 - 439	
HDTAE09	8869	799874	1 - 404	15 - 418	AI564468.
HDTAB89	8870	786039	1 - 383	15 - 397	T78925.
HDTAA31	8871	937609	1 - 1420	15 - 1434	AI219793, AA629254, AW104724, AI567846, AI590227, AI439717, AI568855, AW148320, AW151485, AL036361, AI538716, AI702068, AI828731, AI445025, AI538829, AI536638, AI637584, AW132056, AI890833, AI926790, AI432969, AI564719, AI811344, AI619502, AI802542, AW026882, AI538259, AL079963, AW103371, AI433157, AI702073, AI866801, AW262565, AI815855, AW198090, AI269862, AI269205, AI801766, AI634737, AL047763, AI249257, AI624206, AL038605, AI921248, AI696612, AI274508, AW149869, AL043981, AI871697, AI627360, AI491852, AI889376, AL043326, AI682841, AI524671, AW008048, AW087445, AI349004, AI249323, AI274541, AW268220, AI439745, AI499393, AI872711, AW301505, AI480118, AL040243, AI287489, AW085799, AI783504, AI620284, AI612913, AI559296, AI569583, AA470491, AI254731, AI677796, AL036396, AW301409, AI500523, AI580984, AI431327, AI521012, AI284484, AI625079, AI590128, AW071349, AI800453, AW071417, AI570909, AI440239, AI537303, AW087207, AL036146, AI635461, AL045266, AI648509, AW403717, AL036403, AI610756, AL135661, AI445432, AI571909, AI308032, AI922901, AI284131, AI340582, AI702406, AA225339, AI591316, AL045500, AW118398, AW274192, AI269696, AI819326, AI560099, AI446628, AI633419, AI289937, AW086113, AL036802, AI687728, AW090013, AI815232, AI758437, AI539780, AI567128, AI500706, AI250293, AW148363, AI224992, AI799199, AI554427, AA508692, AI818683, AI801544, AI499463, AI590999, AI952360, AI636445, AI273048, AW118512, AW131954, AW149851, AI539771, AW196141, AI612920, AI567351, AI554484, AI868831, AI912866, AI571551, AI690312, AI270707, AI275175, AI281837, AW238730, AI281779, AI570384, AI349772, AI857296, AI537677, AW002342, AI590120, AI475451, AI569616, AI571861, AI433976, AI702433, AI572787, AI273142, AI282281, AW082040, AI609593, AI673710, AW075351, AI925156, AI886753, AI612759, AI281762, AI869367, AI784252, AI349933, AI800433, AL121463, AW075413, AW166903, AW075667, AI500077, AW051258, AI349645, AL038565, AI624084, AI498579, AI445165, AA427700, AI866002, AW148408, AW166583, AW268251, AW080327, AW169653, AI648684, AI634345, AI610645, AI491897, AL038779, AW074993, AI349614, AI690480, AI521040, AI866608, AI343112, AI580190, AI920968, AW169132, AW195968, AI348897, AI862144, AW268253, AI567612, AI349598, AA835801, AI925196, AI097410, AI312152, AI687127, AI636719, AI539153, AL036265, AI345735, AI312428, AI431975, AI630928, AI687362, AW075084, AL134259, AI950664, AI349937, AW073270,

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HDRAC08	8872	963325	1 - 436	15 - 450	AL040453, AA111930, AW245617, AI066425, AI281116, W73912, W73913, AI887964, AA707826, AA983585, AA147338, AI279720, AI285091, AI796028, AW016807, AW207093, AW301179, AI825596, AI910479, AI376001, AI160598, AI208192, AI033830, AW137387, AA975620, AI760601, H59137, AW242126, H24343, AA551994, AI767833, AA988692, R20517, R44410, N64714, AW198035, D82491, AA857846, D20263, AW339377, W19642, F13806, D82398, AA147361, AW176269, AI828332, AI758798, and W04598.
HDQPR06	8873	936658	1 - 815	15 - 829	AW276983, AW206541, AA418882, AI298636, AA290805, AA127225, AW368344, AI762472,

HDQPP57	8874	926953	1 - 711	15 - 725	T73087, AL119313, AI335529, AA774869, AI291928, AI338925, AF112221, and AB020678.
HDQII08	8875	958252	1 - 456	15 - 470	H80171, AA971126, and T80926.
HDQHU84	8876	782202	1 - 431	15 - 445	AA010427.
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HDQHO94	8877	793387	1 - 114	15 - 128	AA211827, and AA256750.
HDQHJ04	8878	926978	1 - 630	15 - 644	AA592982, R17976, AI014353, AA584604, AI982975, and AW206259.
HDQGW10	8879	963512	1 - 464	15 - 478	AW207166, R62452, AA570462, AW131259, U95742, and AC007216.
HDQGF78	8880	772952	1 - 546	15 - 560	R83407, and AC003086.
HDQFT10	8881	852587	1 - 685	15 - 699	AA864468, AI733017, and AI791415.
HDQFI39	8882	852593	1 - 805	15 - 819	AA765774.
HDQFE93	8883	791724	1 - 1181	15 - 1195	T75255, H82395, R21558, H15880, F12818, Z42224, R13241, and F12817.
HDQEX85	8884	875473	1 - 495	15 - 509	AA002220, H63472, AA307783, AA478844, AI676034, AW364878, AI174745, AI682476, C04105, AA481986, U47346, R10969, T49897, and AL096740.
HDQEW83	8885	780551	1 - 582	15 - 596	AA128013, AA128008, AA128056, and AA128032.
HDQEW11	8886	966126	1 - 316	15 - 330	AA525048.
HDQET29	8887	852618	1 - 459	15 - 473	T70748, AA584765, H86388, AI801563, AW167773, AA662629, AA572718, F27846, AL031427, Z97630, AL050318, AC007308, AL035423, AL109628, AC006121, D79206, AF053356, AC005255, AC006064, AC005592, AC005102, AI239325, AC005971, AL035443, AL132777,

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HDQEQ10	8888	963533	1 - 618	15 - 632	AA558617, AA825712, AA806536, AI537533, AI336120, AA506386, AA721171, AA559219, AI754064, AI754257, AL041375, AI086603, AW148507, AW069227, AI933714, R22196, D29248, AI623764, AI283329, AA233462, AA113757, AA584125, AA714110, N95424, H66812, AA127426, AA669155, AW245331, AW272606, AI300597, AI524360, AL037910, N23896, H29019, AI065031, AI738741, AI417496, AA347232, AI904840, AA608729, AC007151, AC004587, U37450, AC004797, AL021392, Z84488, AC004883, AJ009632, AJ006997, AC004955, AP000694, AC003962, AC005899, AC006441, AC004743, AL021155, Z95116, AL049570, AP000359, AC007227, AC005776, AC000159, AC005399, AC006511, AC006285, AC004887, AC006084, AC003109, AC005589, AC007637, AL035694, AC004821, AL031289, AC007226, AC004820, AC002316, AC005519, AC007263, AC005520, AL133448, AF053356, AC006948, AP001065, AC004799, AP000116, AL035450, AC000007, AC005781, AC002091, AC006111, AL049795, AC006538, AC004382, AC005081, AC004383, AC008055, AL031005, AL139054, AL031228, AL050321, AC002558, AC004583, AP000553, AC004225, AC009516, AL049538, AP000348, AC006101, AC003071, AL031584, AC002546, AL031282, AC020663, AC005225, AC005971, AC008126, AL035249, AC005164, AP000049, AC004031, AC006449, AC007688, AC007566, Y07755, AL031283, AC005940, AC004526, Z93244, AP000311, AC002429, AC005529, AL031293, U78027, AC007376, AC005280, Z86090, AC005800, AP000689, AC004148, AC004973, AF001548, AL121653, AC004019, AC007386, AL035422, AF064857, AC006014, AL121658, AL034553, AC005828, AC007055, AC004771, AL132641, AJ003147, AC003108, AC006077, AC004895, AC006241, AL049552, AC005288, AC006271, AC004703, U85195, AL078583, Z93023, AF111168, AC005082, AC005512, AC002477, AC005859, AC005484, AC005754, AC007066, AL049576, AC002310, AL031311, AC007040, AC002398, AE000658, AL031427, Z81450, AL035458, AL050348, AL031058, AC005202, AL035555, AC004884, AC005521, AC004834, AC004927, AB022537, AL008710, AC006130, AC007563, AC005548, AL117354, AC005317, AC006581, AL034417, AC004686, AC005527, AC003663, AL031277, AL109952, AC005011, S67859, U80459, AC002126, AL022476, Z95152, AL109628, AC009247, AC001226, AL022329, AL049569, AC006536, AF030453, AC007536, AC004755, AL031280, AC005345, AC007868, AL035400, AC002369, AL031053, AC005667, AL031276, AL009031, AC002994, AP000502, AC002326, AL118510, AP000117, Z98036, AF134726, AC005088, AL135960, AJ131016, AC006486, U91323, AL035409, AL022322, AL049643, AC005486, AC002036, AC003042, AL022313, AC008115, AL133353, Z98946,

HDQE146	8889	957666	1 - 411	15 - 425	AL035420, AC007030, Z95114, AL023575, AC004835, U73169, AC007707, AL022316, and AC002096. AW015127, AA767375, AA282147, AI431780, AL120806, AI581323, AI291483, AI050841, AA968963, AI949457, AI309633, AI434775, AI766201, AA130608, AI359445, AI278918, AI445485, AA629098, AA262437, N72677, N21390, H96796, AW118308, AI770085, AI797434, N72690, N50924, W81605, AI371344, AA287019, W31464, R12476, AA694478, T99090, AW273672, H72374, D21015, AW059628, and AC003999. AI820722, AI820696, AI732275, AI732300, AI478997, R50557, R48764, and R48866. N41950, and N33234. AI078356, and AA889808. W05421. AI866951, AI339309, AI417802, AI126514, AI275133, AW138502, AA738256, AA732499, AI016178, AA157007, AI203233, and AJ006266. AI285860, and AA595438. AW002414, AA587218, AI337851, AW341392, AA016317, AW043859, AW148813, AI968429, AI370931, AI186481, and AI796475. AA259064, AA657952, AI143075, AA594872, AI087206, AI149739, AI244822, AA725667, AA056110, AI093167, AI050824, AW024987, AI493689, AI200955, AA454906, AA400067, AA649907, AA436620, AI141148, N31844, AA132154, AA419249, AA402818, AA573258, AI074184, T61071, AA994420, AI339724, AI094655, D80744, AI160520, AA210767, AI885410, AA652366, H19641, AI365036, AI884689, AA733140, AI621277, D80807, AA018419, AA631598, H41099, AA626841, AA579798, AA861445, AI150344, W58172, AA812861, AA041404, H20476, AI339583, AA954727, AA324170, AI372711, AI817408, AA948293, AA507208, D80745, AA400850, AA320028, AA534640, AA534821, N72499, AI380715, AA779645, AA830821, AW023338, AW022102, N67350, AI334895, AI560683, AW020693, AI312210, AW269097, AI336513, AI348895, AI336495, AI335426, AI348777, AI500514, AI310930, AI888621, AL037454, AL048644, H41759, AA572758, AI310940, AW104056, AI340603, AI288285, AI538764, N22276, AA420722, AW162189, AW020095, AW021717, AI538885, AL040586, AL048323, AW022682, AI559752, AL048340, AW071417, AL047422, AI348854, AI567582, AA291456, AL036832, AL039086, AL038564, AI690536, AI307557, AI336633, AI554343, AI345567, AW058233, AI312353, AI887775, AW020710, AA421957, AW071362, AL036274, AW084056, AI349256, AI344935, AI312152, AI307494, AI310575, AW268072, AI335363, AW403717, AW075084, AI340627, AI310925, AI538850, AI312399, AI349937, AL045620, AI334884, AI307543, AI340533, AI348897, AI345251, AW071412, AI345143, AI689420, AI307708, AI345666, AI312325, AW071395, AI648567, AI340659, AW071377, AI311159, AI340511, AW059828, AI340644, AI345397, AL036705, AI334930, AI309443, AI307520, AI345688, AI349186, AW084097, AI340664, AI310592, AI307542,
HDQEF93	8890	791753	1 - 464	15 - 478	
HDQDX89	8891	786323	1 - 977	15 - 991	
HDQDT10	8892	963482	1 - 593	15 - 607	
HDQDG73	8893	761957	1 - 586	15 - 600	
HDQDC74	8894	764985	1 - 323	15 - 337	
HDPYO08	8895	958454	1 - 520	15 - 534	
HDPXZ28	8896	686188	1 - 670	15 - 684	
HDPXW88	8897	631353	1 - 344	15 - 358	

AI309391, AI345745, AI345739, AI345674, AA470491, AI312143, AI349637, AI344843, AI334920, AL040694, AI310927, AW020419, AL038605, AL047344, AI307578, AI349955, AW075093, AI349960, AI312432, AI312357, AI961589, AI921254, AL041150, AI312993, AI890507, AL037649, AW161579, AI312237, H89138, AL046463, AI377163, AI349622, AI636619, AW162194, AI349213, AA580663, AI114703, AW020397, AA042949, AI345347, AL119836, AI866465, AL039276, AI312428, AA493647, AA464646, AI702065, AI242248, AI267162, AI340519, AA468418, AI345415, AW238688, AI923989, AI254226, AL134999, AI433157, AI348917, AI345396, AI955945, AI473536, AI702073, AW131999, AI866770, AW152550, AL046618, AI690748, AA579232, AI567953, AI612750, AI799195, AA635382, AI885989, AL040011, AI446495, AI349276, AI540674, AI815232, AL080163, AL080234, AF058921, AL050024, AL117583, A08916, A08910, I89947, A08909, A08907, I48978, A08908, A08913, A08912, S76508, AF094480, AL133016, AL023657, AL137556, I89931, AF079763, X53587, AR038854, I49625, AJ010277, AL137658, AF090934, AF028823, A18777, AL050092, A03736, I89934, AL080074, AF090943, AL137560, AF118090, AF158248, AR059958, AL117416, AF114818, AL050116, AF113013, S77771, X79812, M86826, E01314, A23630, AL133010, AL049300, AF111851, AL137550, AL110224, AL050138, AL137548, U49908, AL122110, AF113690, AF114170, AL049382, U58996, AL110296, AL117649, AF026124, A07647, AL117457, L04504, X63574, S78214, AL133560, E01573, E02319, AL080060, AF100931, AF126247, AF097996, AR000496, U39656, AF069506, X72387, U53505, I03321, AF113676, AL137558, AF008439, AL133113, Y07905, U42766, Y11254, AL049430, X52128, Z37987, S69510, AL080126, AL117435, AL137641, U35846, I89944, AB016226, AF113677, L19437, S36676, AF067728, AF153205, AF000301, X96540, AF078844, Z72491, AL080158, X92070, AL133606, AL049465, AR011880, Y10080, S63521, AF051325, X70685, AL137271, AF200464, E15324, U68233, I92592, AL137529, AF090903, AL080140, AL117440, AL137656, AF016271, AL080137, U78525, AL133080, AF061573, D83032, U88966, AL137537, AL137276, AF169154, AL080086, AR020905, E04233, AF176651, AL137459, AL049452, U68387, AL050108, E15569, U51587, A58524, I48979, A58523, A15345, AL080124, A08911, AL133067, X87582, AL049347, AJ238278, AF017790, AL110158, AF090900, S68736, X57961, AF090896, AF137367, AL110222, AL137476, AL049464, AF113694, AL133558, AJ242859, J05032, AL080127, AF061795, E08631, AF151685, AL110225, AL133568, AL117394, AL050155, AL050393, X93495, X65873, AJ012755, AF113691, A08915, AF026816, X81464, AR068751, X63410, S75997, AF091084, AF017437, X06146, Y16645, AF118094, AJ000937, AL122050, I33392, X80340, AR029490, AL080154, AF111849, AL117460, I17544, E06743, AB007812, AF090886, AL133075, M27260, A90832, U66274, AF125948, AF177401, AL122093, AF106657, AL096751, E01614, E13364, AL137521, AL137292, AF057300, AF057299, AL137479, AL110280, AF061943, AL110218, I68732, AF162270, X72889, I29004, E12747, AL137539, I80064, AL110171, AL117648, AR013797, AL050277, AL137283, AL137526, AF118064,					
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						AL049283, Y11587, AF118070, U67958, AL110196, Y10936, AF113699, AF106827, I17767, and AL117585.
HDPXO03	8898	923602	1 - 624	15 - 638		H52273, AW368490, and T64894.
HDPXN01	8899	915919	1 - 461	15 - 475		AI651231, AW196757, AA101088, W94251, AI627422, W94274, AA912880, AI093809, AI867562, H06521, and H20526.
HDPXL71	8900	760140	1 - 263	15 - 277		H84068, and AA054207.
HDPXD40	8901	974493	1 - 554	15 - 568		
HDPXD08	8902	958826	1 - 460	15 - 474		AA651853.
HDPXC56	8903	974490	1 - 550	15 - 564		
HDPXB75	8904	786320	1 - 451	15 - 465		
HDPWX53	8905	727595	1 - 428	15 - 442		T97918, and N77405.
HDPWT92	8906	791223	1 - 650	15 - 664		N76855.
HDPWR03	8907	923608	1 - 483	15 - 497		AA838727, AI816786, AI935020, AI801846, AI928063, AR014046, AR014055, and AR014063.
HDPWN56	8908	733129	1 - 412	15 - 426		AI761763, and R62488.
HDPWK75	8909	793234	1 - 448	15 - 462		AL037151, AW160378, AW163731, R62281, AL037901, T06249, AA211768, AI381026, AA206573, T30286, AW162002, AW390277, T30284, AA075932, AF061940, AF061939, AF061938, AF061941, and AJ132258.
HDPWH75	8910	956201	1 - 479	15 - 493		H79853, W03687, AA465485, AA455724, H83356, W87865, H59791, R16967, T79085, R09412, and R83716.
HDPVC01	8911	915816	1 - 594	15 - 608		AI038628.
HDPW82	8912	921279	1 - 299	15 - 313		R40075, R51621, AI141535, R46566, R37155, AI492408, AA970417, AA419023, H99298, AI669153, AA907293, AA811138, AA788986, AI825009, AI579905, H17653, R93326, R16181, AW070719, AA130206, AA745834, AI338136, AA365593, AA365604, R88755, AI824699, AI914066, AA448251, Z39123, R34299, AI808827, AP000298, AF039907, AP000044, and AP000112.
HDPV65	8913	747646	1 - 831	15 - 845		R56626, AA928427, AW005035, AW364625, R68718, AW364618, AI318289, and AI494313.
HDPV11	8914	966558	1 - 632	15 - 646		H08311, H29675, N99517, R11982, T80994, AA773218, AA569178, AL022345, AL049760, AC005011, AC008124, AC007857, AL080243, AC005295, U91323, AC005086, AC005067, AC002565, AL035458, AC011504, AC005800, AL031685, and AF047825.
HDPUR51	8915	914406	1 - 250	15 - 264		AW069477, AI471968, AW249664, AW245944, AA720616, AI825610, AA931555, AA988285, AI076790, AW009565, AI217146, AI217151, AI934470, AI161265, AW194915, AI675557, AA883665, AA149768, AW027197, AA011403, AA975558, AI219393, AW173189, AA436569, AI150988, AI421887, AA669290, R45925, AI784385, Z21905, T69866, AW138299, AI560662, and AF093415.
HDPUN39	8916	957580	1 - 1806	15 - 1820		AA703945, AI378007, AI887376, AI819938, AW118802, AW117265, AI023239, AA858163, AA836225, AA815054, N32787, AI304385, AI859862, AI810059, AA948491, AI393415,

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HDPUI44	8917	715971	1 - 707	15 - 721	AA203502, R93355, AI022629, AI627435, T85234, and T97519.
HDPTO65	8918	747206	1 - 554	15 - 568	AA136168.
HDPTL59	8919	739068	1 - 374	15 - 388	T68902, and T68823.
HDPTL43	8920	715038	1 - 608	15 - 622	T57728.
HDPTD58	8921	735750	1 - 550	15 - 564	H71387.
HDPSW93	8922	973098	1 - 486	15 - 500	AW162288, F13749, AI751162, AI696793, AW162489, AW270270, AI431434, AI537538, AI148277, AI859946, AI287651, AA601680, AA179706, AI268812, AA747375, C15897, AI266576, AA644320, AA708678, AA610491, AI500552, AI151261, AL120687, AA111870, AA127353, AW083934, AI305766, AI469796, AW062724, AI453233, AA284184, AI446638, AA604514, AW270258, T47739, AA657835, AI355246, AI291317, AA077776, AA135761, AI279165, AW194267, AI367361, H79308, AA578853, AA176605, AI243789, AW157005, T06828, AW193493, AA302980, AW192065, AA992126, AI445474, AI192631, AA814510, AL135643, AI028510, AL048616, AA226584, AI382614, T40612, AI696962, AW021583, AA297496, AA720732, AW069227, C14121, AA121919, AA484892, AI360514, AI568683, AI291124, AA071393, AI053786, AI358812, AL031670, AC002314, AC007055, AC005829, AP000248, Z98051, AF196969, AF129756, AP000504, U96629, AI080243, AC004453, AF114156, AC005484, AC004231, AP000556, AC002492, AC009946, Z99716, AC007546, AC002301, AC002544, AC007225, AL078477, AC005332, AL035072, AC006057, AC005668, U73634, AL080242, AC004655, Z93241, AC008372, AC005527, AF111168, AC005624, AL049795, AL096678, AC005940, U91326, AC007688, AC007376, AC004526, AP000505, AC004475, AC007536, AF134726, AC003041, AL121658, AC002400, Z98941, AC002300, AC006064, AL022237, AC004253, AC005377, AJ003147, AL035684, AC005529, AC004970, U47924, AC006312, AC004913, AC002351, AC007444, AP000160, AC018633, AC004874, AC005800, AC005755, AC004448, AF196779, AF047825, AC000026, AL031782, AC005696, Z82243, AL049636, AF053356, AL050308, AC006965, AC003037, AC009509, AC004125, AC005209, AC005821, AC005284, AL049766, AC006511, AC002059, AP000692, AC007298, AC007050, AC000025, Z85986, Z95116, AC004531, Z98744, AL078476, AL022329, AC006449, U62293, AC002470, AC005971, AC016831, Z82206, AC005740, AC004890, AC005237, AC002369, AC004617, AB000882, AL049776, AC003101, AC005288, AC004832, AC006441, AC004400, AC004381, AC012627, AC006468, AL031447, AL031283, AC006111, AC009516, U62317, AL022336, AC002045, Z98304, AC005182, AC004841, AC002996, AC007207, AL022476, AC007367, AC004796, AF104455, AP000359, AP000117, AC006277, AP000087,

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HDPSW82	8923	779614	1 - 664	15 - 678	W90767, AI125397, AI125743, AA912111, and W90700.
HDPSL71	8924	969286	1 - 416	15 - 430	AI201084, AI432483, AI469036, AI933748, AA927480, AA921974, AI653945, AA514329, AI952978, AI282809, AW451209, AW025649, and AW242494.
HDPSK64	8925	746370	1 - 636	15 - 650	AA001236, and AL137442.
HDPSK53	8926	727586	1 - 462	15 - 476	AA078886, AA078885, AL041732, and AB014514.
HDPSJ13	8927	656729	1 - 401	15 - 415	H60868.
HDPSB10	8928	961309	1 - 432	15 - 446	AI290094.
HDPSA86	8929	785293	1 - 440	15 - 454	AA495949, AI963348, R37246, AI394099, Z40416, N62063, H06877, AA425013, AI625778, AA883232, AW183998, C00885, AW418807, T63598, and AA488249.
HDPRW01	8930	915993	1 - 511	15 - 525	AI090161, AW369155, AW369104, AW377799, AW369248, and AL078593.
HDPRS89	8931	887682	1 - 464	15 - 478	
HDPRR24	8932	914667	1 - 398	15 - 412	AW246183, W19148, AW105250, H81510, W23551, AI199034, H30332, R58152, AA293565, H51005, AA017325, R70532, W25288, AA378659, AA431053, N35769, AA303188, AA121246, AA354142, AA668370, AF086837, and AF086838.
HDPRK07	8933	948672	1 - 380	15 - 394	AA765539, AA927315, and AL031133.
HDPRJ04	8934	909040	1 - 597	15 - 611	AL135709, AA417107, and AL096677.
HDPRE41	8935	712124	1 - 505	15 - 519	R76879, and R98903.
HDPR451	8936	725103	1 - 317	15 - 331	
HDPPQV82	8937	779421	1 - 473	15 - 487	H80898, AL037040, Z93023, AC004752, AC004216, AL117339, AL096702, AC004682, AC002073, AL031427, AL022318, and AC005363.
HDPPQR07	8938	952337	1 - 618	15 - 632	AA909187.
HDPPQ168	8939	955006	1 - 632	15 - 646	AI052000, AW043554, AI589322, AI219714, AI921817, AI940690, AA854748, and AA860747.

HDPQH06	8940	934616	1 - 431	15 - 445	AI652814, and AL122123.
HDPQF03	8941	923120	1 - 810	15 - 824	AI582755, R26237, R86322, AL042965, AL134518, AL119319, AL119335, AL039912, U46351, U46349, AB021861, AF100318, A81671, AB026436, and AR043113.
HDPQC63	8942	744461	1 - 427	15 - 441	H79008.
HDPQA64	8943	872237	1 - 347	15 - 361	AA135852.
HDPPP29	8944	690497	1 - 381	15 - 395	AA430072, AI433439, AA534674, AC004190, AP000516, and AB014087.
HDPPI17	8945	662917	1 - 374	15 - 388	N28339, and Z75746.
HDPOX03	8946	923856	1 - 579	15 - 593	AI056982, and AW062324.
HDPOI78	8947	773487	1 - 905	15 - 919	AI912571, AI911514, AI679788, N24178, AI313135, N78597, AW083974, Z30045, H92801, AI361253, D52266, H92790, AA639165, D61220, AI341193, AA565721, T23468, D60865, AI357528, D59892, AI702867, AI928304, and W07344.
HDPOP03	8948	923843	1 - 579	15 - 593	N49161, and U61375.
HDPOC02	8949	919597	1 - 618	15 - 632	AA122267, AA995018, AI677847, H06642, R16329, AI919166, AI611049, and AW235290.
HDPIJ73	8950	764407	1 - 593	15 - 607	T56742, AA551532, AA169830, AL022336, AC006014, AC005488, AP000356, AC004765, AC004841, AC004770, AC004228, AL031670, AC005697, AL035455, AL031280, AL109865, AL031311, AC009509, AC005837, AL021878, AC004882, AC005484, AC005529, AC004974, and AC002407.
HDPND09	8951	607575	1 - 555	15 - 569	AA587005, F29968, AA525753, AI783911, AW261871, AI954464, AI476460, AA513484, AA584756, U78027, AL121603, AL035422, AC002350, Z95329, AC005046, AC006511, AL008582, AC006468, AL031431, AF117829, AP000111, AP000043, AL035587, AC005800, AC002126, AC004647, Z84480, AF088219, AL049780, AC007308, AC005793, AC009247, AL035415, AC007536, AL049776, AF001549, AL049766, AC020663, AC007225, AC002477, AL031774, AF030876, AC004890, AC005480, AF196779, AC002312, AC007676, AL117339, AC007055, AF001552, AC004525, AC005821, AL035681, AP000359, AC003070, AP000509, AC007388, U91326, AC007151, AC005899, AL022313, AL034423, AL050318, L78810, AC005399, U91323, AF207550, AL024508, Z93241, Z98742, AL121653, AL031681, AL135744, AL009181, AL133245, AC005288, AF196971, AL132712, U52112, AC009516, AC005284, AL024498, AL049760, AL080243, AC005690, and AC005037.
HDPNC22	8952	674539	1 - 881	15 - 895	W90578, W90539, T86410, AI709138, AA890473, T79032, T86498, T85302, T79033, AI784127, T85514, and AB033024.
HDPMV35	8953	706647	1 - 386	15 - 400	W20066.
HDPMR81	8954	493958	1 - 452	15 - 466	AI700071, and AI651878.
HDPMH51	8955	725029	1 - 762	15 - 776	H75594, H84078, H86134, and H84972.
HDPMG46	8956	934144	1 - 346	15 - 360	AI073504, AA931246, AI420858, AA156986, AA806750, AI020536, AI796966, AI440318, AI299156, AI659218, AI147939, AI499692, AI088683, AL048596, AI337583, AI363844, N25239, AI470606, C06326, AW148877, AA253327, AI984272, AI052500, AI984788, H14210, AA284014,

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HDPLV29	8957	849526	1 - 567	15 - 581	AA236014, AA236084, AA330056, AF149770, and AC004801.
HDPLU84	8958	782061	1 - 597	15 - 611	R06132, and AC005746.
HDPLT62	8959	973945	1 - 796	15 - 810	AW392670, U46341, AL119497, AL119443, AL119483, AW372827, AW384394, AW363220, AL119319, AL119457, AL119324, AL119396, AL119363, AL119496, Z99396, AL119484, AL119341, AL119391, AL119355, U46350, U46347, U46351, U46349, AL119444, U46346, AL119335, AL134920, AL134533, AL119439, AL119522, AL134518, AL134902, AL042975, AL134526, AL134538, AL119399, AL042965, AL037205, U46345, AL042970, AL119418, AL042614, AL134531, AL043029, AL042450, AL042995, AL043011, AL042544, AI142139, AL042542, AL043019, AL042984, AL042551, AL043003, AL119464, AL119488, AB026436, AR054110, A81671, AR060234, AR066494, and AR069079.
HDPKI78	8960	773469	1 - 404	15 - 418	W88601.
HDPKA03	8961	923841	1 - 473	15 - 487	AI434789, AW271602, AI813305, N26090, N67808, AI093649, W03392, N36730, AW394104, and AI263776.
HDPJX07	8962	952966	1 - 562	15 - 576	AI085674, AA770353, and AI695338.
HDPJP44	8963	716466	1 - 498	15 - 512	AI770178, AI627506, AI916830, AW236927, AW299782, AI623168, AI347533, AA969417, AW002419, AI763247, AI299571, AI927189, AW136045, AI962542, AA428643, AW207242, AA778307, AI266564, AI334622, AI308144, AI824178, AI675224, AA931817, Z60819, and Z55542.
HDPJK23	8964	488326	1 - 342	15 - 356	W52110, AB020679, and AF067777.
HDPJB19	8965	887886	1 - 279	15 - 293	
HDPJA07	8966	953001	1 - 241	15 - 255	AA021174.
HDPJW95	8967	933240	1 - 814	15 - 828	AI217942, AA885223, AA909021, AA705902, AA306479, H91973, H89928, and AL135175.
HDPJV34	8968	703959	1 - 477	15 - 491	H12352, AI343988, H12300, R71296, and AC007283.
HDPJQ24	8969	771939	1 - 482	15 - 496	H08480, AA580484, AA226996, AA406259, AA402365, and AL022334.
HDPJP06	8970	935198	1 - 570	15 - 584	H70412.
HDPIL73	8971	764344	1 - 328	15 - 342	

HDPIL01	8972	916221	1 - 330	15 - 344	AA515728, AW328331, AI733856, AW069227, AA714110, AI634187, AI133083, AA630854, AA904211, AI754170, AI708005, AI457313, AI866971, AW069412, AA668587, AL044966, AI216990, AI791720, AI791408, AI439910, AA629731, AI049845, AI431513, AI224583, F24745, AA676592, AI889579, AI421257, AL121287, AA714011, AI627185, AA658918, AI187148, AI887235, AA614163, AA458452, AI066646, AW089625, AW083934, T74524, AA595499, AW265279, AA503298, AA483606, D44672, AA570740, AA513551, AA218684, AA513851, AI049643, AA654038, AI277783, AI049630, AI890297, AW338376, AA601230, AA568204, AA171400, AI912401, AI828555, AI733523, AA297802, AI801563, AA507814, AW188742, AI536834, W02749, AI633386, AW104163, AI905408, AI635609, AP000350, AC005696, AL031664, Z84469, AC004066, AC004985, AL034344, AL109627, AL121653, AC007298, AC006050, Z68322, AP000252, AL109952, AC005031, AP000044, AP000112, AC000075, AC003007, AC004000, AL035079, AP000212, AP000134, AC007277, AF053356, U80017, AP000031, AC005632, AL133448, AC004605, Z98200, Z81364, AL035086, AF109907, AL133246, AL034423, AL121655, AC002314, AC006208, AC004893, AC004883, AC005005, AL031848, AC005409, AL096701, AL133163, AL109628, AC005232, AC005228, AF134726, AC007934, AC001228, Z97055, L78810, AC005664, AL049650, AP001053, AC006079, AL031589, AC005527, U47924, AC005701, AC005606, AL034429, AC005206, AC006162, AC003042, AC005602, AC004098, AC002364, AC006547, AC006080, AC006449, AC005529, AF191071, AC005722, Z98048, AC005082, AL020997, AP000116, AL050307, AJ003147, AC004033, AL031673, AP000008, AC005667, AC003043, AC005484, AF196972, Z97632, AL008730, AF129756, AP000248, Z83840, AP000065, AC004796, AC006088, AL024507, AC005412, AL080250, AC002476, AC002553, AC005837, AC005500, AC004821, AC005971, AC007226, Z84474, AC006441, AC004805, AP000326, AC005071, AC005911, AP000133, AP000169, AP000122, AC005726, AC005822, AC005071, AC005911, AP000211, AP000133, AC004966, AC010205, AC004884, AC005800, AC003982, AC004552, AC002120, AL008582, AC005618, AL031846, Z98950, AC000115, AC005037, AL049540, AC007227, AC007540, AP000557, AP000049, Z83838, AP000501, AP000503, AC002477, AC009247, AC006084, AP000311, AF207550, AL035457, AL139054, AL035690, AC005331, AC007688, AL035659, AC005695, AC002470, AP000365, AC004895, AC004967, AL022336, U91327, AC002350, Z93017, AD000092, AC005003, AL049776, AP000299, Z93930, AP000103, AC006057, AC002312, AC004962, AL031283, AL031311, AC006487, AC006581, AL035405, AL031276, AC005057, AF111169, AL021453, AC006130, AC007637, AL133355, L78833, AL031778, AC004019, AJ236701, AP000692, AC005089, AC005531, AL096766, Z98051, AC008040, AC004663, AC002551, AL031864, AC002306, AC004752, AC005779, AC002563, AL049734, AC005740, AP000045, AP000113, AC005015, Z98044, AC007057, AL049872, AC003108, AL117338, AC004150, AC005900, AC007160, Z83844, AC006512, AC005859, AC005944, AP000688, AC006360, AJ251973, AL050318, AP000504, AL121769, AL117258, AL096791,
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HDP1F78	8973	881960	1 - 347	15 - 361		
HDP1F66	8974	750575	1 - 431	15 - 445		
HDP1F54	8975	729441	1 - 556	15 - 570		
HDP1D88	8976	415993	1 - 409	15 - 423		
HDP1D53	8977	728058	1 - 416	15 - 430		AA513893, AW410354, AW148507, AW191886, AA679532, AA099222, AA320279, AI168661, AA954641, AA610219, AI627917, AW027660, AA476495, AP000217, AC002422, AP000339, AL133321, AL078603, AL035090, AC005593, AL035691, AL024498, AC008040, AC007688, AC005587, AC005247, AC005035, AL133445, Z49918, AC003991, AC005599, AC007676, AL049767, AL031737, AP000355, AC007376, AC005235, AC007899, AC002449, AC006947, AC006432, U95742, AL033381, AC007216, AP000501, AC007226, AL035413, AL022067, AP000080, AC005094, AC007685, AC004910, AL022727, AC005228, AC005519, AL008627, AF069291, AL117354, AC007695, AL109984, AC006529, AL110502, AC006238, Z85986, AC007270, AC004582, AL021877, AL117356, AC005081, AC006271, AP000038, Z82217, AC000052, AC005015, AC005156, AC004019, AC004605, AF111169, AC007253, AC004638, Z92844, AC002536, AL008732, AL023803, AC005523, AL050309, AL078587, AC004967, AC004059, AL031230, AL031120, AL008631, AL049779, AC000134, AL079342, AC002542, AC005022, AC006441, AL022320, AC004999, AF111168, AC002511, AL109963, AC003101, AL049757, and AC007182.
HDPIA21	8978	827350	1 - 459	15 - 473		AC002400, AF134726, AP000503, AP000049, AP000311, AC009784, AC005856, AC004905, and AC007546.
HDPHF37	8979	706622	1 - 313	15 - 327		
HDPHA89	8980	786078	1 - 495	15 - 509		AA056286, AA054104, R88858, H83463, H86714, H84085, AA011139, AW160888, AI570404, F05284, R69197, and AA015680.
HDPHA40	8981	711126	1 - 376	15 - 390		AA010368.
HDPHA37	8982	812336	1 - 494	15 - 508		AB002378.
HDPHA34	8983	704036	1 - 500	15 - 514		H63370, and AC005495.
HDPGX15	8984	660089	1 - 448	15 - 462		AC008282.
HDPGX10	8985	964519	1 - 714	15 - 728		AA281456.
HDPGX03	8986	924010	1 - 396	15 - 410		
HDPGT96	8987	973363	1 - 453	15 - 467		AL021938.
HDPGS93	8988	792256	1 - 454	15 - 468		AF107885.
HDPGS45	8989	921381	1 - 355	15 - 369		T85104, T80174, N73918, W02957, AA910341, and AC005562.
HDPGS43	8990	715232	1 - 453	15 - 467		AI038997, AI458126, AI457736, N57242, AI087313, AA648507, N41553, AI655523, AI827737, and AC000119.

HDPGS16	8991	909833	1 - 447	15 - 461	AA774560, AA530983, N42742, AA825514, AJ245709, AF124141, AF135794, AL117525, AF124142, and D49836.
HDPGS01	8992	916352	1 - 454	15 - 468	
HDPGR44	8993	468389	1 - 213	15 - 227	
HDPGN15	8994	394693	1 - 452	15 - 466	AA502207, AI050076, AA877992, R82650, AI368732, AL120141, W63553, AA211734, AW023111, AA938390, AA630122, AA493789, AA482844, AI160786, AA569059, AA737235, W01323, AA482776, AL024508, AC000353, AC005790, AJ003147, AC004815, AL034549, AL137705, AC007096, AC000159, AJ012008, AP000504, AF129756, AC006208, AF196969, AC004874, AL022314, AL030996, AL035413, AF001548, AC007541, AL109753, AC004227, AC005531, AC005529, M55987, AC002559, AL035405, Z81010, AP000362, X55448, AC007748, AL032822, AC002375, AC000029, AC007227, L44140, AC006538, AC010186, Z98885, AC002094, AC006236, AL133312, AC005535, AC018767, AC007637, Z93017, AC003071, AL096701, AC007546, AF073485, AP000256, Z68324, AP000098, AL031775, AL021393, U80017, AL132987, AL035089, AC010183, Z97353, AC006430, AF088219, AC005088, AC005156, AC006211, AC005484, AC005189, AL034417, and AC006344.
HDPGN13	8995	416046	1 - 442	15 - 456	AA586451, AA515742, AI298079, F34468, AA657910, AA640252, AA831997, AI499954, AI800345, AA338635, H16875, F26713, AA161305, AA506952, AW029269, T08205, AA229159, AW242279, AI627868, AW071109, AL134167, AL041019, AL041018, AA550989, H73306, AW392414, AL045476, AW408596, AA948670, AW341955, T41134, AA658890, F37201, AI471455, AW439703, AI687343, AA111870, F34605, AI680547, AW162227, AA728925, AW377926, AL135363, AA657392, AI054326, AA056206, AA836097, AA678950, AA325466, AW407632, U51704, AA584655, AA315052, AI801824, AI147511, AA311432, AA429481, AA554257, AL035685, AC007204, AC005206, AC004686, AC005667, AC007685, AC005366, AL109842, AC004961, AC006578, AB020859, AC005866, AB001523, AC007021, AC002314, AL034423, AC006084, Z49236, AJ251973, AF001549, AC002115, AB026899, AC005899, AC003691, AC008122, AC000402, AC002322, U62631, AC004491, AC004234, AL109984, AC005183, Z98752, AC006262, AL021393, AC006120, AL096818, AF030453, AL008707, AC004820, AC005091, AP000500, AC004963, AP000501, AL031585, AL139054, AC002470, U53930, AC002544, U53583, AL050321, AC004743, Z93023, AL009181, AF053356, AC004560, Z98256, AC004692, AC002543, AC007934, AL031686, AC005189, AC006540, AL078602, AC006071, AL096701, AC007199, Z93930, AP000512, Z69921, S79836, U11297, U08438, AP000065, AC007040, AC006001, U97187, AL049653, AC004638, AL031904, AF111170, AC007358, AC007066, AC004851, AC011504, AC005666, AC008015, AC005519, AL137716, AB014079, AC007381, AC006139, AP000514, AL049814, AC007537, AC006270, AL031284, AC003037, AL022163, AC006312, AC005695, AC005796, AC005089, AC007193, Z68323, AC004876, AF196971, AC004466, AL035652, AJ246003, AC003982, L31848, AC004752, AL096767, AC004741, AC006367, AC011456, AC007057, AL031315, AC005102, AL022722,

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HDPGN11	8996	966923	1 - 388	15 - 402	AA767082, AI554821, AI064787, AI815232, AA814782, AI312428, AI580927, AL036802, AA504514, AW071380, AI499512, AI801544, AW131282, AI520862, AW089689, AI538878, AI909661, AI634737, AA715307, AA613907, AL036656, AL045421, AW080565, AI499191, AI923989, AI440263, AL038779, AI582932, AA641818, AA761557, AI446248, AI923509, AI886415, AI889189, AI281773, AW151136, AW243741, AI475394, AI635492, AI866465, AI597918, AI539771, AL121270, AI364788, AI537677, AI064830, AI500659, AA809974, AI801325, AI500523, AI284517, AI500706, AI491776, AI445237, AW151138, AI521560, AI500662, AI284509, AI889168, AI866573, AI633493, AI434256, AI624543, AI888661, AI284513, AI888118, AI371251, AI436429, AI859991, AI872423, AI440252, AI909672, AW087445, AL036901, AL045774, AL121328, AI678989, AI371228, T79374, AL047422, AI269862, AI433037, AL039730, AI355849, AW117882, AI640873, AI343030, AI340519, AW128983, AI494201, AL110402, AI866469, AI345608, AW081133, AW172723, AI860003, AI805769, AI906328, AI432656, AW162194, AI889147, AI345587, AI866786, AI610557, AI633125, AW059828, AI887499, AI045500, AW083804, AI282655, AI340511, AL119791, AC007392, AL022315, Z49258, Z82206, AL033521, AC005291, AL022723, AC006112, Z99495, AC009233, AC004383, AL021391, AL035407, AC018767, AP000355, AC005156, AC007298, AP000020, AL031984, AC005048, AC004837, AC005520, AL022147, AL122021, AC002416, AL034417, and AC005224.
HDPGI49	8997	722903	1 - 296	15 - 310	N59681.
HDPGI75	8998	766618	1 - 464	15 - 478	AA644090, AA081825, Z81365, AL035683, and AL020995.
HDPGI74	8999	765524	1 - 453	15 - 467	AI033397, AL031685, AL050318, AC005072, Z99127, U52112, AC006511, AC002430, AC004491, AC007384, AL034400, AL109628, I44140, AC008372, AC011362, AC004834, AC003101, AC002565, AL080243, AC006238, AF006752, AC006453, AC005740, AC005778, AC004825, U91323, AC005015, AC005529, AC005089, AL020997, AC004953, AP000697, AC003003, Z95115, AC007386, AC005562, AL049758, AC005756, AC005206, AC004887, AC005952, and AC005667.

HDPGH73	9000	764397	1 - 104	15 - 118	AA111917. AI032747, AI769719, T79745, and AC004751. AA525394, AA484596, AA484372, AL042753, AL042377, AI475660, AA464969, AW024544, AL045360, AA603359, AA808153, AI500553, AL138455, AL134524, AA974503, AL043095, AW117882, AL040319, AA177033, W95924, AI440426, AL046110, AA947997, AI696846, AI433157, AL042891, AA760655, AI863014, AC005081, AC007055, AC004491, AF196779, AC005015, AC006530, AC006285, AC006064, AL121653, AC005971, AC006480, AL109627, AF205588, AC006071, AL022316, AC006211, U47924, AP000692, AC005696, AL096791, AC004686, AL008719, Z83844, AC005225, U91326, AC005291, AC006057, AC007227, AC005231, AC002464, AF111168, AL035659, AC016025, AC002395, AC007216, AC020663, AC006014, AL022238, Z82206, AC005519, AC009516, AL121603, AP000557, AL022723, AL096701, AC005207, AC007664, AC004797, AC005399, AC007686, AC002544, AP000501, AL049569, AL009181, AC016831, AC009247, AC006312, AL022721, AC005800, AC005488, AL031311, AL049757, AL035587, AC005082, AC004841, AC004883, AL080243, AC005736, AC016830, AC002073, AC008372, AF001548, AL049694, AC005529, AL050318, AC006241, AD000092, AC004966, Z93930, AL049776, AL050348, AC004213, AC005618, AL031680, AC007051, Z85986, AC006039, Z77249, AF091512, Z99716, AL136295, AC005089, AC003982, AC002477, Z98051, AC002430, AL035086, AP001053, AC006441, AL096776, AL022336, AF109907, AC004257, AP000088, AF001549, AC002558, AC004878, AC004605, AC004882, AC002347, Z97056, AC007384, AC005962, AC004263, AC002039, AF093117, AC005071, AC004150, AC007277, AC005102, U95090, AC004813, U95739, AL135744, AC005072, AC004987, AF042090, AL132712, AP000513, AC002425, AC005755, AL034548, AL021707, AL078463, AC004832, AB004907, AL049872, AL022165, AC005874, AF134471, AC005726, AL034555, AC004383, AC006277, AC007676, Z84466, AC005180, AL049795, AL022476, AC002350, AL008582, AC004814, AL031229, AL049759, Z98200, AL034420, AC006040, AC003070, AC005409, AC005881, AC007458, AF047825, AC006953, AC005778, AF129756, AC004921, AC006449, AC006077, AF053356, AC002316, AF019413, U95742, AC008040, and AL133445.
HDPGG01	9001	916389	1 - 304	15 - 318	
HDPGD28	9002	879489	1 - 433	15 - 447	
HDPFZ70	9003	709684	1 - 761	15 - 775	
HDPFW02	9004	919306	1 - 558	15 - 572	T39977, and AL050337. W72416, AA955016, and W76266.
HDPFS71	9005	486744	1 - 467	15 - 481	
HDPFS59	9006	486737	1 - 462	15 - 476	
HDPFP96	9007	796360	1 - 451	15 - 465	
HDPFP71	9008	760327	1 - 797	15 - 811	
HDPFP14	9009	486765	1 - 478	15 - 492	
HDPFN23	9010	486738	1 - 442	15 - 456	
HDPFM28	9011	486766	1 - 469	15 - 483	

HDPFL52	9012	486739	1 - 469	15 - 483	AC007281.
HDPFJ58	9013	783957	1 - 352	15 - 366	W05340.
HDPFD10	9014	964521	1 - 705	15 - 719	AA424163, and AI350948.
HDPFB03	9015	936331	1 - 678	15 - 692	AI694127, AI299320, H70360, T98966, AA356015, AL045292, AA236204, AA131671, AW118104, W20295, H75919, N31893, R98291, AL117517, and AB023221.
HDPDH08	9016	959303	1 - 344	15 - 358	AA082104, and AA134717.
HDPDD12	9017	970592	1 - 964	15 - 978	AI939431, AW020534, AI347310, AI371784, AI423466, AW150254, AW015338, AI361447, AI419452, AI088725, AI371086, AI418456, AI361506, AI419176, AI363726, AW176344, AL120300, AI424173, AW016674, AI288889, AF097450, AF146793, AF011568, AB002332, and AF000998.
HDPDC90	9018	590161	1 - 641	15 - 655	T52186, and Z97630.
HDP CY47	9019	775412	1 - 402	15 - 416	W38488, N27984, AA649285, AA661773, AA298770, AA306867, H81350, AA100476, AA310276, AA417302, AA314322, AI815642, AA045597, D82429, R89903, AA130829, R83064, AA382073, AA297193, AA100050, AA344066, AA311797, T85780, AA334159, AA314221, N51146, AL122042, and AC007842.
HDP CP89	9020	786075	1 - 384	15 - 398	AA494163, T52475, and AC004148.
HDP CP64	9021	746527	1 - 320	15 - 334	AL022329, and AL022332.
HDP CP48	9022	721620	1 - 406	15 - 420	
HDP CP46	9023	719014	1 - 447	15 - 461	
HDP CP43	9024	715227	1 - 432	15 - 446	AI751151, AA418897, AA195596, AA491307, T54037, AA339713, AI751325, W79862, N41703, AA099015, H71376, AA307241, AA371799, AA485793, AA300777, AA299440, AA485195, N28794, AA313589, R85229, AA491479, H52010, AA471326, AA227051, H13340, AA218541, AA216580, R72732, AA330733, AA227045, N36603, AA219518, W52126, AI336290, AA213719, H30288, R94642, AF112482, J04794, AF036680, and AF112484.
HDP CP16	9025	416032	1 - 408	15 - 422	
HDP CO12	9026	852847	1 - 446	15 - 460	N23913, AI674840, AL079734, AL206841, AA502991, AA452887, AL119691, AA581247, AW023111, AL038842, AA644090, AI189682, AA832444, AI799569, AI889426, AA525764, AA765925, AI192440, AA503298, AI306149, AI627917, R34070, AA427470, H68343, AI962030, AA582554, AI066711, AA610642, AA837035, AA063008, AA468196, AI610468, AI421257, AA525331, AI610737, AA584862, AI791659, AW327624, AI267884, AA121777, AA832175, AA491767, AW245860, AI565126, AA405726, AC005632, AI031589, AL078472, AC006505, AP000967, AF196779, AF200465, AC000353, AC006952, AP000704, AC006312, AL049829, AC004859, AC007707, AC002091, AP000362, AB023048, AC004526, AC007666, AC002300, AC007283, AC003101, AC004491, AC005049, AC007774, AL031729, Z83822, AL139054, Z85996, AC005058, AL117355, AC002996, AL049569, AC002352, AC007011, AF030453, Z84480, AL133163, AP000510, AC002544, AC005412, Z83308, AC008033, AC005220,

					AL049696, AC005531, AC006121, AC005899, AC004106, AC005514, AC005377, AL031283, AP000008, AL132642, AC006552, AC007314, AL121915, AC004033, AL132712, AC002476, AP000501, AC004253, AC006430, AC005081, AC007055, AC002316, AL049631, AC005920, AL049780, AL049697, Z84469, AC004883, Z97630, AC010582, AC005088, AC003982, AL008583, AP000355, AC004659, AC004815, AC003098, AL022313, AL133448, AC002470, AC004805, AL080278, AL096701, AP000023, AB016897, AC004755, AL121825, Z83844, AC000029, AL133245, AC006165, AL121658, AL023553, AC003043, AC005015, AL121852, AL049776, AC005031, AJ239322, AP000512, AC005695, AL049759, AL049760, AC009516, AL049869, AC006487, Z98946, AC005158, AL035413, AC004814, AL021579, AJ246003, AC004983, AC005291, AC004813, AF015416, AF047825, AF064864, AC005924, AC006241, U85195, AC000052, U80017, AB023051, AC005288, AC006001, AC007040, AC002045, AL031295, AC010206, AP001053, AC004966, AL021578, AC007225, AC007425, AC003085, AC005694, AL034423, AL035703, AE000658, AL008635, AP000692, AL109628, AL031228, Z98751, AC005484, AF031075, U91321, AC007384, AL022316, AC006530, AC005902, Z70288, AL021392, AC004216, AC006285, AC007193, AL034420, AL121603, AC002044, AC007182, AC004181, AL035460, U82668, AL050318, AC006211, AP000509, AC006581, AP000557, AC002425, AC004232, AC005089, AC003950, AP000215, AC006449, Z97196, AC005369, AP000043, AP000111, AF030876, AC005730, Z95114, AC007676, AC003683, AC005993, AF001548, AL135744, AC005969, AP000359, AC006441, AC005620, AC007938, U91323, AC010205, AC005736, AC002120, U91318, AF002223, AC007129, AC005988, AL008718, AC005225, AC010200, AC000159, AC005527, AC009363, AB000876, AC007664, AL034379, AC007687, AC002369, AC005409, AC005725, AP000246, AL031427, AC005082, AC005261, AP000302, AC004686, AC006251, AC002115, U62317, and AC005180.
HDPCN88	9027	416035	1 - 439	15 - 453	
HDPCN73	9028	764400	1 - 435	15 - 449	
HDPCN33	9029	416028	1 - 339	15 - 353	
HDPCM66	9030	852849	1 - 459	15 - 473	D25538, Z49806, and U12919.
HDPCM62	9031	454740	1 - 451	15 - 465	AI525779, AL048467, Z98468, AI132950, AL037961, AA467916, AI540982, AA523369, C17914, AA147138, C17592, AA503155, AA177092, AA180879, AA641056, AA610797, AW270568, C18849, AA182403, AA469384, AA115399, AA468916, AA533146, AA147875, AA180941, AI133326, AI525589, AA248428, AA469455, AI557370, AI525553, AI557341, C17520, AA828615, AA181413, C17634, C16951, AI880907, AA178872, AA548209, AI720611, AI038782, AI832713, AA579252, AA468090, AA134092, AA467874, AI720582, AA524630, AA195788, AI564503, C17424, AI888059, AA192670, AA652263, AA194546, AA523654, AA131426, AI557313, AI535678, AI749086, AI459469, AA187125, AA229365, AA737156, AA501707, AI557102, AA214681, AA879244, AA180873, AA112861, AA194379, AA194687, AA569535, AA182903, AA182943, AA533654, AA522594, AI525571, AA991485, AI749735,

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HDPCH45	9032	974424	1 - 369	15 - 383	
HDPCH85	9033	973314	1 - 508	15 - 522	
HDPCH33	9034	495711	1 - 509	15 - 523	
HDPCH67	9035	878776	1 - 286	15 - 300	AA723077.
HDPBQ75	9036	466645	1 - 416	15 - 430	H68565, and AF064553.
HDPBP64	9037	746537	1 - 368	15 - 382	R51480.
HDPB131	9038	852885	1 - 628	15 - 642	AA477369, AI914713, AA878492, AA678616, AA659832, AA714073, AW078821, AW390284, AI347665, T08386, AA644223, AA581498, AI472736, AA662989, AW440568, AA678932, N66927, AW081610, N67313, AI889995, AA126814, AA452325, W96277, AW005974, F02342, AA020873, AI619994, AI697425, T26476, F26072, AA657910, C14330, AI718462, AI683116

					AI130709, AI536858, H01243, AI537995, AA609826, AA804729, N75708, AW190277, AW148775, AA599080, AI814682, AI291439, AW392414, AW272640, AI869786, AA618247, AW054936, AA572974, AI362442, AF001549, AC009225, AL023775, AL031291, AC007488, AC006501, AL022320, AC005969, AC007201, AC004104, Z98200, AC006271, AC003982, AC005841, AL078639, AL049871, AC004884, AC004598, AL035086, AL096712, AL022316, AC004662, AC007938, AC005066, AP000243, AC007688, AP000203, U47924, AC005231, AC004895, AF196969, AC002381, AF024533, AC005971, AL022331, AC006064, AL021155, AL031659, AL034420, AP000228, AC005899, AL133163, AC002316, AC005088, Z84480, AP000140, AC004257, L41140, AC005881, AL022323, M87889, AC005261, AL020996, AC004882, AC006080, AP000088, Z75407, AC007227, AL035422, AF038458, AP001052, AL022326, AL034549, AF003626, AC004804, AL050317, AC002543, AC004263, AC007308, AL022240, AC007193, AL096791, AC005722, AC007055, AP000493, Z93930, AC000092, AL132712, AC003663, AC002365, AC006050, D28126, AL050332, AB003151, AC005781, AL022165, AC006547, AC004963, AP000558, AL031003, AP000403, AC003007, AC004973, AL021939, AP000036, AC005529, AL049874, AC007684, AL035588, Z83844, AL021917, AC005600, AC004491, AL031295, AC006581, AC005870, U52111, AC004605, AC004253, AC004132, AC005102, AC005620, AL008722, AC008989, AL035413, AL109853, U15422, AL031584, Z85995, Z46940, AL008730, AC005229, AC002544, AL050307, AC002352, AC005632, AL109952, AC005914, AP000557, Z82176, AP000272, U29895, AL080242, AC005663, AL034548, AC004525, AC000353, AC009247, AC003108, AC004099, AL033527, AL049872, U78027, AP000501, AC003026, AP000556, Z84466, Z83822, AP000552, AL132777, AC005664, AL021707, AC005837, AP000696, AP000130, AP000208, AF196970, AC009516, AC002991, AL109628, AC005081, AL121603, AL022311, AF047825, AC009399, AC004686, AD000092, AC002303, AC005619, AC005829, Z98304, AC002094, AC002351, AP000695, AC000039, AC003009, AP000689, AL031431, AL022313, and AC005886.
HDPBF15	9039	852880	1 - 392	15 - 406	AA284570.
HDPBE85	9040	783544	1 - 661	15 - 675	AA682505, R11150, T79291, T79204, R11151, and AI140542.
HDPAX21	9041	670893	1 - 487	15 - 501	T63648.
HDPVAV46	9042	719027	1 - 403	15 - 417	AA100330, and AF037222.
HDPAP04	9043	615193	1 - 384	15 - 398	T87401, AW021289, and AL121748.
HDPAP08	9044	972332	1 - 1554	15 - 1568	Z99396, AW392670, AL119319, AL119457, AL119483, AL119324, AL119443, AL119484, AL119391, U46350, U46347, U46351, AW372827, AW384394, AL119497, AW363220, AL119363, AL119355, U46349, U46341, AL119522, AL119439, AL119444, AL119341, AL037205, AL119401, AL134531, AL119396, U46346, AL119418, AL119335, AL134538, AL042542, AL134518, AL119399, AL119496, AL134920, AL134533, AL042965, U46345, AL043011, AL043029, AL042544, AL042614, AL043019, AL042975, AL042450, AL042984, AL043003, AL042551, AL119464, AB026436, I25027, AR054109, I44515, I26928, I26930,

					I26927, I25041, I44516, A81671, AR066494, AR054110, AR060234, I09121, AR035224, I85513, AR009152, AR009151, AR027099, AR069079, AR019098, I89986, AR020199, AR020200, AR001287, AR020198, AR020197, AR028791, AR028793, I05430, I05393, A10617, AR028792, A01324, A01323, AR019094, AR034783, I63120, A92666, AR067733, A92668, I49890, AR029418, A92667, AR067734, AR067731, AR064322, AR064323, AR064320, AR064321, A32110, AR067732, AR029417, A83642, A94048, A94061, A83643, A94046, A94054, A49045, A70359, A92665, AR038307, and AR038321.
HDP AO64	9045	746550	1 - 445	15 - 459	T65324, AA575982, F09955, H88491, and AA947153.
HDP AN94	9046	901123	1 - 450	15 - 464	AA917335, Z20320, AL080176, AF144235, and A74743.
HDP AK09	9047	494170	1 - 437	15 - 451	AW168420, AI254913, F12561, AI382825, AA846952, F08248, AA572999, AI751216, AA302973, AA613627, AA578621, AI818737, H07953, AI536552, N22037, AA760808, T74524, H67863, AC005755, AL049694, AC004662, AF134726, AC004605, AL021393, AC002994, Z98051, AC005261, AL034417, AC004019, AC005484, AL049779, U91321, AC002074, AC007216, AC007637, AC007242, AL031282, AC006001, AC005411, AC005900, AF053356, AC004805, AC004526, AC006344, AF111168, AL022329, Z82206, AC005899, AP000555, AC004881, AC002302, AC005668, AC005086, AC004985, AC011331, AL049830, U95742, AC004996, AL031255, AL035071, AC004975, AL049697, AL049758, AC002312, AF117829, U85195, AC005534, AL035423, AL035683, AL122023, AC007676, AP000502, AC005726, AE000658, AL080243, AC005071, AF001549, AC007226, AF001548, AC006120, AC004067, AF196779, AC002350, AC002429, AC006379, AL109628, AC007225, AL035681, AJ010770, AC005529, AF088219, Z85987, AC006040, AC003010, Z83840, AF030453, AC005391, AL109754, AC005088, AC007376, AJ011930, AC002476, AC004099, AC005049, AL049766, AC005602, AC005756, AC003080, AC006946, AC006026, AC010205, AC005829, AC007690, AC004757, AC006043, AL109952, AC000052, AC002316, AC004695, AF031078, AC005027, AL139054, AC007731, AC006965, AC005500, AF030876, AC005015, Z99716, AC007878, AL035403, U07562, AC006480, AC004890, AL023575, AC004000, AL031659, AC005324, AC006538, AC007308, AC005046, AL117258, U91318, AC005320, AL078477, AC016025, AC005512, U89337, AC007666, AC004797, Z97056, AC006966, AL022722, AC006039, AP000045, AL035398, Z94056, Z85996, AC006023, AB001523, AC004821, AC005962, and Z82198.
HDP AI64	9048	881654	1 - 428	15 - 442	
HDP AH17	9049	663779	1 - 573	15 - 587	AA680145, W60281, T86901, AW058463, W60373, T86900, Z54200, and AF106862.
HDP AF40	9050	856391	1 - 555	15 - 569	T92908, T92904, AA504485, T92996, and T93000.
HDP AC90	9051	787296	1 - 806	15 - 820	AA020898, H48269, AA599610, AI809570, W73575, AI693860, AI393815, AW339773, T51762, T51608, and AA284050.
HDP AC78	9052	773570	1 - 226	15 - 240	H82420, H82680, and AL078581.
HDP AB34	9053	581900	1 - 442	15 - 456	T94880.

HDPA80	9054	775417	1 - 501	15 - 515	T84574, and AI192443.
HDPA38	9055	546575	1 - 690	15 - 704	AL037050, AW081941, AW406447, AA342901, AW088058, AA916039, AW074398, T71998, AI299050, AI281903, AI689097, AA610491, AI054246, AI053816, N71724, F19258, AA095511, AF177861, AA336362, AA377385, AW272758, AA501722, AA340003, AA308806, AA318652, AI357551, AI565245, AI886176, AW236342, N22059, AI364809, AA491814, AI859251, AA515435, AW301818, AI919265, AL138265, AI287451, AA177061, F29989, AW440976, AI053429, AI053672, AI274692, AI696962, AL040547, AI307426, AI284640, AA932099, AI334443, T06556, AW340844, AW361583, AI358229, F36273, AA743956, AA553465, AI963095, AW406755, AI200051, AI291124, AI365988, AI654588, AI291268, AW071063, AI537030, AW339687, AI635272, AI133164, AA321311, AI216799, AI016000, AL041368, AL138455, AA252763, AA652057, AA649642, AI264743, AI610159, AI469172, F24284, AI690686, AI623132, AA745410, AL048616, AA654627, AA601892, AI537955, AA454925, R13151, AI446601, AI801591, AA501784, F32705, AP000356, AC006004, AL121603, AC006064, AC005215, AC004814, AC005940, AL034420, AC004491, Z73359, AP000245, AL049636, AC006480, AF053356, AP000556, AC004894, AC002350, AP000552, AC005324, AL020993, AL022324, AC002072, AC004895, AF045555, AF111168, AL121653, AC005619, AC002316, AC003043, AC006285, AC004477, AC005800, U07562, AC005412, AC005081, AL121655, AL121658, AC006001, AC005046, AC005099, AC005722, AL096701, Z84484, AF111169, Z97054, AC007225, AC005920, AC007216, AC007899, AC005015, AF196779, AC007878, AL035683, AC004966, AL033521, AL035460, U95742, AC004962, AC007242, AC006388, AC000025, AC000083, AP000210, AP000132, AC004534, AC006111, AC004156, Z82214, AL096791, AC007276, AC007371, AC007686, AC016025, AC005529, AC006312, AC008041, AC004812, AL021453, AL033392, Z86061, AL132718, AF129756, AL031584, AC006153, AL049779, AL021918, AC007707, AC005157, AC005037, AP000030, AP000558, AL023284, AC005790, AL109967, AC007666, Z98742, U91323, AC007011, AP000248, AF001549, AC004815, AC008134, AC005284, AC004890, AC006251, AC005066, AP000251, AP000557, AC004964, AC005280, AC005696, AL024507, AC003982, AC006071, AC004841, AP000474, AL049569, AC006211, AC008101, AC009330, AC007277, AC000078, AF196969, AL079340, AC002070, AC000052, AL049830, AC004745, AC007450, AL024498, AC005180, AL133243, AL031228, AC005666, AC003119, AC004150, AL035587, AL035090, AL035249, AC003104, AC006195, U91326, AC005250, AL031005, Z98743, AC007537, Z98048, AI251973, AC002432, AC004776, AC007262, AC005694, AC004148, AC009516, AC004983, AC000159, AC005562, Z84466, AC006057, Z82901, AL031848, AC005288, AC005625, AC005510, AC002369, AL109802, U89337, X64467, AC007387, AL034451, AJ010770, AC007688, AB026898, AL021391, AP000311, AC002312, AC004472, AC005755, AC004750, AL031777, U47924, AL022323, Z93017, AC002525, Z82182, Z85987, AC004770, AP000692, AL035450, AF042090, AC004813, AL031230, AL132777, AC002115, AC004650, Z83844, AL008582, AC005911,

					AC007324, AJ003147, AF017104, Z98946, AC007919, AC005821, AJ246003, AL117351, AC005041, AC003041, AC007358, AL133355, AL035411, AC005919, AC008115, AL031255, AC005913, AF134726, AC006012, AC008079, AC005358, AC004694, AC009044, AC003102, AL109628, AL031053, U85195, AF109907, AL049766, AC003986, Z82250, AC007051, AL049780, AJ006996, AC004907, AC002096, AC006088, AC006077, AL050341, AC005399, AC005331, AC005997, AL022165, AL078463, AC006323, AP000045, AC005242, Z99716, AC005295, AP000555, and AC004996.
HDLBE11	9056	966230	1 - 365	15 - 379	AA419383, AA411025, T03583, AA233509, AA969363, AA186898, AA485941, FI2561, T65562, T59612, AW020599, AA989107, AA831152, F13808, AA745507, AW020088, AW022655, R61498, T78512, AA554153, AA720755, C15363, AF165926, AC005324, AL035086, AF111168, AC003098, Z99716, U85195, AE000658, AC005488, AL049758, AC004491, AL136295, AL030997, AC005736, AC003035, U95742, AC006059, Z99289, AL133245, AC003041, AC007151, AC007216, AF109907, AC000353, AC006014, AC000367, AC005914, AC005776, AC006965, AC007057, Z98742, AL031121, AL008715, AL110292, AL132641, AF088219, AF107258, D83253, AP000240, AC007226, AC007193, U91326, AC007022, AL122020, AL035089, AL024507, AC005368, AC007421, AC004765, AC002430, AC002367, AC007384, AL121603, AC006538, AP000010, AC005971, Z99572, U07562, AL035460, AL031311, AC005412, AL049829, AC005666, Z97054, AL031120, AL049872, Z97183, AC005702, AL078638, AC005520, AP000495, AL049856, AC004816, AL022476, AC006480, AF053356, AC005730, AC004675, Z98200, AP000152, AC006241, AF205588, AL049795, AC005089, AL050318, AP001038, AL031666, AL035423, AC005355, AC003070, AC002400, AC005184, AL031584, AC005726, AC006211, AC006312, AP000555, AC007707, AL022163, AC005037, AL049646, AC004821, AC009516, AC007277, Z73359, AC005884, U47924, AC004890, AP000201, AC005620, AF186189, AC002470, U07563, AC007225, AL008582, Z83822, AC005081, AL022237, AC004382, AC004800, AC005826, AC006379, Z92540, AC006537, AJ011930, AL050332, AL031431, AL050308, AC005231, AC005874, AF134471, AP000097, U91322, AP000704, AC004796, AC007376, AB023048, AC002301, AC006441, AC006064, AC006006, AC008085, AL022165, AC007917, AL135744, AL132987, AC002331, AP000155, AL022326, AL132712, D87009, AC000052, AC004230, and AB003151.
HDLAX74	9057	765091	1 - 543	15 - 557	AA059372, AA063107, H92283, and AL096766.
HDLAX52	9058	726241	1 - 819	15 - 833	AA033545, AW265437, and AA332853.
HDLAW58	9059	735559	1 - 869	15 - 883	AA461055, and AL371831.
HDLAV11	9060	852919	1 - 296	15 - 310	AA481536.
HDLAG57	9061	565105	1 - 429	15 - 443	AI354333, AA715876, AI538236, AA828153, AW080910, AL049712, AC008079, AP000501, AC007226, AC007899, AC005082, AC005920, AL021393, AL031737, AC005378, AL049830, AL009031, AC006271, AL008583, AC004796, AL022320, AL049869, AP000552, AP000493, AC007790, AL078623, AC007384, AC007216, AL132826, AC002326, AL020997, U95742,

						AL035414, AC011311, AL008627, AC005237, AC004526, AC005304, Z98751, AC002425, AC006511, AC008928, AL132777, AJ251973, AC005962, AL024493, AP000547, AC005908, AP000355, AC007052, AC009247, AC006277, AC008101, AC002115, AC005057, and AC005089.
HDLAC67	9062	751699	1 - 423	15 - 437		
HDLAC51	9063	799888	1 - 476	15 - 490		
HDLAC30	9064	799891	1 - 267	15 - 281		
HDLAA58	9065	736081	1 - 479	15 - 493		
HDCBF12	9066	969401	1 - 446	15 - 460		AA447870, AA447714, AA574205, AA502267, AC012384, AC004941, and AC006463.
HDCBD07	9067	951948	1 - 416	15 - 430		AI874270.
HDCAN06	9068	933818	1 - 332	15 - 346		AI59233, and AC005955.
HDCAG61	9069	852968	1 - 495	15 - 509		AA128887, AA128895, AP000542, and AJ239321.
HDBAK09	9070	625387	1 - 705	15 - 719		AA658364, AI096634, and AI767001.
HDBAA11	9071	966723	1 - 447	15 - 461		N57222, and AL033377.
HCWWH01	9072	915420	1 - 496	15 - 510		AA680050, AI821757, and AW270550.
						AI690025, AA719414, AA502477, H71101, Z36759, AA584859, AC003684, AC005529, AC005527, AP001052, AC006211, AC000025, AC005581, AL022717, AL021155, AL022578, AC006270, AC004910, AC006026, AC004682, AC004884, AC008040, AF196779, AC003010, AC008116, AC006077, AL022319, AL117338, AC007225, AC004382, AL034429, AL008722, AL022336, AF196969, AC005412, AC008072, AL009172, AC005088, AC005697, AC009516, AC006449, Z94056, AC004638, AC009294, AC005089, AC004685, AC004963, AL080243, AC005776, and AF030453.
HCWVA80	9073	974488	1 - 457	15 - 471		AC007349.
HCWUS57	9074	974462	1 - 565	15 - 579		N88601, N84855, AA247827, N84048, N83992, AA096046, AA095359, N89520, N83991, N83168, AA247964, N88782, H58760, AA093224, N55698, AA095641, AA096066, AA471338, N84718, N86694, N83993, N84712, N88518, N84830, N87989, N84829, AF102850, U48696, AF039698, AR066487, AF103726, S78798, AF045432, AF032922, AJ243486, and U39066.
HCWUS50	9075	974467	1 - 568	15 - 582		N88782, N84855, N88601, H58760, AA095359, N83991, N83992, AA096066, AA096046, N83168, AA247827, N89520, N84048, AA247964, AA095641, N84830, N84712, AA471338, N84718, N86694, N55698, N83993, N84829, N88518, N87898, AA089553, U39066, AF102850, AR066487, AF103726, S78798, U48696, AF045432, AF039698, AF032922, and AJ243486.
HCWUQ81	9076	853002	1 - 505	15 - 519		H83216.
HCWUQ10	9077	964080	1 - 471	15 - 485		AI082150, and AA865640.
HCWUP62	9078	743064	1 - 597	15 - 611		H44723, AI820826, H26859, and AI820767.
HCWUM01	9079	974466	1 - 634	15 - 648		H58760, AA096046, N88601, N84855, N83168, N88782, AA247964, AA095359, N83991, N89520, N83992, AA247827, AA096066, N84048, AA095641, N84830, N84718, N86694, N55698, N88518, N83993, N84712, N87989, AA471338, AA089553, N84829, N87898,

						AC005226, AF103726, U48696, AF039698, AF102850, S78798, AR066487, AF045432, AF032922, AJ243486, and U39066.
HCWUL35	9080	706530	1 - 679	15 - 693		AA418115, AA417937, and AA765368.
HCWUJ49	9081	722674	1 - 396	15 - 410		AA126089.
HCWTP17	9082	662486	1 - 430	15 - 444		AI417821, and N25970.
HCWTL02	9083	919252	1 - 608	15 - 622		AA446435.
HCWSC38	9084	706523	1 - 533	15 - 547		AA428577.
HCWLA43	9085	927571	1 - 427	15 - 441		N57837.
HCWKT71	9086	888167	1 - 333	15 - 347		
HCWKS70	9087	757172	1 - 340	15 - 354		AA526413, AI521525, AI249365, AW238712, AL040430, AI188049, AA286836, AW020150, AI278372, AW327852, T30864, AI557422, AA572974, AA745302, AA947265, R49266, AA729253, H91704, AA683069, AA525807, AW022897, AA370037, F01222, AW243945, AL041681, AL041682, AI567391, AL035681, AP000344, AL031120, AL096791, AL022165, AC007363, AL034429, AP000359, AP000301, AC005998, AC009247, AF047825, AF039906, AF045555, AC005484, AL132712, AC005702, AP000116, AL122020, AC007934, AC004815, Z82190, Z98036, AC004144, AC004834, AC004148, AL049576, U91319, Z98884, AC007225, U63721, AC005520, AC006270, AC002558, Z93930, Z85986, AC009509, AP000555, AL023805, AC005037, AP000252, Z84480, AP001053, AF064861, AC005288, AL020997, AF112482, AP000080, AC006965, AC004476, AC004890, AF111168, AL008718, AC007842, AC004560, U47924, AL133243, AC006468, AC007227, AL049830, AC002563, AL031577, AC005913, AC002314, AL034549, X89398, AC005015, AC005231, AC007308, AP000505, AC019014, AL022326, L78833, AC002310, AB020865, AP000691, AC005412, AL049692, AC005971, AC006132, AC004878, AP000547, AC002288, AC005225, AC012330, AC005089, AC005510, D42052, AC003982, AC005736, AC006960, AC004983, Z82198, AC006241, AL049760, AC007676, Y14768, AF205588, AC005488, AL031295, AC000094, U91323, AF031078, M27147, Z93017, AC005387, AL008729, AC000003, Z98304, AC004000, AC004019, AC005102, AL049569, AC005057, AL035458, AC004623, AC005932, AC008372, AC016025, AC002511, AC005399, AF030876, AF129756, AC007193, AC004814, AC005874, AF134471, Z97056, AF176815, AP000354, AC005632, AC004998, AC003104, AC002389, AP000212, AP000134, AC005839, AC005730, AC004916, AC005212, AC004685, AC004024, AL096703, AC007536, AC005899, AC005067, Z83844, AL049776, AP000501, AL096766, AC007666, AL135744, AC005755, AF195658, AC004466, AL132987, AC008132, AL031229, AL034402, AL121603, Z69921, AC006261, L47234, AC002565, AC004821, AC003026, U07561, AC002316, AL035450, AC006050, AL049758, U95739, AC005328, AC008012, AL117356, AC004526, AP000131, AP000209, AC002400, AP000141, AC004382, AJ009610, AC004876, AP000045, Z98886, AC006064, AC007055, U85195, AC005722, AC002477, AC007384, AF030453, AL133245, AC006948, AC005207, Z97054, AL009181, Z85987, AC003983, AF001552, AC005527,

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HCWKS35	9088	706518	1 - 319	15 - 333		AL121879, and AC002526.
HCWKR86	9089	784705	1 - 369	15 - 383		
HCWKR85	9090	783555	1 - 271	15 - 285		AL181879, AW270258, AA659360, AI254779, AA602906, AW438542, AW075729, AI708005, F00564, AA700943, AA622801, AW117740, AA833896, AA833875, AA769429, AL048275, H53217, AA765170, N72170, AW020992, AI249886, AW438539, F02999, H66577, AI654247, R95840, AI253376, R94288, AI281881, AW304805, AA470567, AA302978, H60249, AC010169, U67818, AC007055, AL109984, AL121655, AF039907, AL139054, AC006077, AC006211, AC016027, AC006441, AC016830, AF053356, AC005015, AC002477, AL049631, AL049780, AL035422, AC004067, AC002350, AC002351, AC004031, AC007199, AC004752, U78027, AC006251, Z97184, AC007565, AC006480, AC004087, AL031311, AP000299, AL133246, AC005911, AF111168, AC005377, AC006323, AL021939, AC004922, AC007551, U85195, AC005914, AP000032, AL022163, Z97056, AL022311, AC004815, AP000212, AP000134, AC004382, AC002429, AC006333, Y15727, AE000658, Z83840, AC004893, AC005837, AC005200, AC004983, AC002463, AL031291, AL050321, AL031666, AC005821, AC005180, AL080243, AC002544, Z93023, AC006312, AC007688, AF196779, AC005940, U34879, AC002107, AL049776, AP000045, AP000113, AC005264, AL049856, AC005273, AC005902, Z93241, AC005488, AC004796, AJ010770, AC004805, AL031848, Z81364, AC006014, U91326, AC003098, AC005369, AF088219, Z99943, U73637, AC007263, AL133353, AF017104, AC005089, AC004841, AF111167, AC002312, AC005295, AL031985, Z93020, AD000833, AL049872, AF001552, AC005620, AL049713, AL022165, AC000039, AF031078, AC020663, AL021154, AL021394, Z82976, AC005520, AL023803, AF047825, U52112, AC007860, AC004821, AL023575, AC005225, AL133245, AP000555, AF015416, AC004148, AC005722, AL022476, Z83826, AC005562, AF030876, AC007308, AC004000, AL096701, AC007277, AC004216, AC004125, Z70280, AC004638, L78833, AC004686, AL022320, AC004099, AP000563, AL030996, AC005484, AC006208, AC005048, AL033521, AL031602, Z82208, AC005086, AC005183, AP000692, Z97054, AC006449, Z68870, AC002531, AC004914, U15177, AF207550, AL096801, U07563, AC005756, AL022316, AL035398, AL096791, AC004647, Z98941, U95743, AC005519, AC005399, AC004675, AP000431, AC004913, AC003104, AL023553, AC002072, AC007868, AL049766, AC002543, AP000501, and AP000346.
HCWKR62	9091	742602	1 - 314	15 - 328		H78195, AI284640, AA581903, AA652764, AA482711, AA111909, AI431303, AA631363, F29989, AW419262, AA214342, T53128, AL041690, AA514737, AI817516, AW088202, AW327868, H71429, AA669840, AI282310, AA192740, AA650211, AA178953, AA483223,

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HCWKR51	9092	725027	1 - 329	15 - 343	AI376239, AI887314, AI224387, AI632810, CI5060, AI857756, AI457313, AI634187, AW069227, N58179, AA630535, AA452887, AA598927, AW151247, AI192839, AA669054, AA811741, AA743968, AA218720, AA084609, AW082470, AA368616, AA604865, AA548886, AA340581, AA581247, AI471476, AI912401, AI066646, AI357628, AI537995, AI536858, AI130709, AI955029, AI491765, AA021189, H07953, AA626829, AW272640, AA021429, AI742168, AA481887, AA489240, AI370170, AA659608, AA086318, AW080356, T74524, AA515457, AW188742, AA493731, AW304699, AI679221, AA598605, H84412, R43992, H48767, AA666295, AI289941, AI802087, AI289942, AC005058, AC007421, AL049636, AL031685, AC016027, AL021878, AC016830, AC002996, AC005225, AJ003147, AC002302, AC005940, Z84466, AL035587, AL049776, Z97876, AC005512, I34294, L24093, AL080243, AC004531, AC004216, Z98946, AC005082, AC005844, AC004542, AL034420, AC006347, AC005231, AC004817, AC006449, AL049697, AC005071, AL024508, U63721, AP000501, AC006285, AC002352, AC005412, AC005006, U80017, AP000212, AP000134, AC005881, AC002565, AC005200, AC004598, AL035690, AC002369, AC005971, AC007671, AF047825, Z85986, Z84480, AC002303, AC005049, U95739, AL021578, AC007051, AC004590, AC006006, AL022721, AP000252, AL049830, AC005696, U91325, Z85987, AC002045, AC004878, AC005295, AC006538, AL096701, AC006014, AC012331, AC005041, AC000079, AL136295, AL031311, AC004477, Z83844, AC003109, AL031431, AC007917, AC002350, AL049839, U91321, AC005378, AC008372, U52111, AC003982, AC005839, AC006111, AL121603, AC006468, AL110502, AC004815, AC004882, AC005520, AL049869, AC005399, AL031735, AL035086, AL050307, AC006065, AC010077, AC007395, Z83845, AC007216, AL008719, AL022165, AC007666, AC008040, AC002314, AC005274, AL031602, Z94056, Z98884, AC005529, AC004832, AL022237, Z82206, AL031291, AL049874, U07561, AC005488, AB003151, AC005899, AC005914, AF207550, AL109963, AL031848, AC004895, AL049757, AL109627, AC004526, Z82178, AC005081, AL031657, AC006211, AC002558, AP000042, AP000110, AC007129, AC007325, AL133238, U95742, AL022320, AL132777, AC005037, AL031673, AC004814, AC000035, AC005682, AL050321, AL121653, AL022316, AC004655, AC006023, AC007938, AC004851, AC020663, AC006509, L47234, AC002390, AL109623, AC006241, AL049793, AL133244, AL022336, AF134726, AL031985, AL022322, Z82215, AC006121, AC004854, AC004893, AP000032, AC006040, AC006057, AL035422, AP000251,
HCWKR14	9093	658421	1 - 413	15 - 427	

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HCWKQ09	9094	625546	1 - 448	15 - 462	AI804923, N70274, AI992261, AW140138, AA934526, AI793312, W88993, and AI077351.
HCWKI72	9095	760628	1 - 188	15 - 202	AW090499, and H43869.
HCWKD85	9096	783545	1 - 288	15 - 302	W45058.
HCWKC61	9097	741803	1 - 640	15 - 654	R00030, W88606, AA777327, W88525, AI033236, and R00122.
HCWHN53	9098	728248	1 - 332	15 - 346	AA148646.
HCWHF76	9099	838528	1 - 683	15 - 697	AI963720, AA490183, AL046409, AW406755, AI431303, AI284640, F36273, AI345654, AA581903, AW193265, AI754955, AW072923, AW274349, AL119691, AI334443, AI350211, AA525824, AI270117, AW303196, AI613280, AA610491, AW276827, AL043719, AW301350, AW419262, AI281881, AI679782, AW438643, AI561060, AW327868, AI801591, AW088846, AI246119, AW270270, AA491814, AI344844, AW029038, AI754253, AW276435, AI345681, AI345675, AI200051, AI341664, AI619997, AW238278, AL138455, AW072587, AI085719, AI696793, AW265009, AI061334, AI289067, AI471481, AA720702, AI357288, AI379719, AI375710, AI792287, AI053672, AA613345, AW162049, AI962050, AL037683, AI801600, AI929531, AL044940, AI358229, AA713815, AW410400, AI471543, AW276817, AI799642, AI860020, AA469451, AI355206, AW408717, AW193432, AW407578, AI669453, AL041690, AI688846, AI339850, AA521399, AA521323, AI754658, AL046205, AI761471, AW406162, AA806796, AI537955, AI110770, AI365988, AA669840, AI589230, AL042420, AL120687, AI133164, AW265393, AW404653, AW166815, AA229814, AW088202, AI298710, AI148277, AI124759, AA491284, AL048925, AA630362, AW304584, AI904894, AI633025, AI635818, AI708009, R88888, AA569471, AI610159, AA525190, N48230, AL138265, AI654588, AA631507, AI473943, AI312309, AI345518, AW162489, AW167372, AL038785, AW023270, AL079645, AI871722, AI336660, AA226153, AI890918, AA623002, AI133102, AI568678, AA714453, AA665330, AA577906, H71429, AW008952, W79504, AW071196, AW261871, AL046457, AI281697, AI143242, AW338086, AI928790, AI357551, AI499503, AI467919, AI434695, AW073470, AW103758, AI918421, AA126051, AA126035, AA502155, AA577959, AI564185, AL040382, AA780515, AW088616, AA513141, AI287651, AI471572, AI571512, AI251002, AW008317, AW339568, AI590958, AI749559, AI624142, AI049634, AW023672, AA493708, AI240168, AA482711, AI283911, AA587256, AI370878, AW162288, AA551552, AL041146, AW080134, AA526787, AW102955, AI564454, N27584, AA621858, AA493471, AI623720, AA877817, AL135405, AI654525, AA507547, AI287528, AI254615, AW276932, AW338500, R98967, AL046898, AA908687, AI886629, AA559290, AI434706, AC005488,

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HCWGY56	9100	732688	1 - 353	15 - 367	H60503, H73127, R87153, and H54125.
HCWGU65	9101	747198	1 - 648	15 - 662	
HCWGR02	9102	920121	1 - 449	15 - 463	T62926, AI565392, and T62778.
HCWGE86	9103	974476	1 - 556	15 - 570	
HCWGE85	9104	783528	1 - 346	15 - 360	AA001715, AA677924, AA633058, and AA730673.
HCWGA64	9105	746153	1 - 217	15 - 231	AI357815, N71226, AA829044, AA651632, AA630672, AA583394, AA602906, AA664900, AA502818, AI860587, H60971, AA535216, AA568754, AW020088, AA213959, H92527,

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HCWFEV07	9106	953582	1 - 417	15 - 431		AI125400, AA884999, AF124523, and AF118808.
HCWFEU40	9107	710419	1 - 516	15 - 530		AA194830, AI168347, AA878779, and AW193187.
HCWFEM44	9108	716726	1 - 591	15 - 605		R76265, R97725, AI741451, AI868531, R26030, H57394, R26000, AC004654, AC005260, AC005392, AC004784, AC005238, and AC005791.
HCWFK37	9109	800389	1 - 292	15 - 306		AA669155, AI891080, AC009044, AL035249, AC009247, AC004805, AC005399, AC005005, AC004928, AC004148, AC004858, AC005304, AL049636, AL121754, AC004743, AC004895, AL020997, U91326, AC002416, AC005003, AC007688, AC004821, AL021392, U91322, AC007774, AL031733, AC006211, AC005529, AC005484, AC005841, AL022238, AP000696, AL031283, AC005520, AC003101, AC007358, AC004129, AL133448, AC002544, AC005846, AC002301, AL109798, AF053356, AC006277, Z73417, AL049643, AL109839, AC004408, AC005837, AF207550, AC007308, AC005971, AC004983, AC004478, AC005358, AL049709, AP000326, AL022721, AC008134, AC005544, Z98884, Z83844, and AF001549.
HCWFI71	9110	489879	1 - 425	15 - 439		
HCWFE35	9111	722467	1 - 383	15 - 397		H95168, AW249352, AA479537, H17584, AA340567, AW161280, AA160751, AW162903, AA220220, AI929687, AI005164, W51926, AA130689, AA907575, N75168, AI676056, N29217, N26362, AI244335, AA833853, W58723, T11688, AI806567, T57726, AI017884, AW055105, AA836509, AI478719, AA431503, AI492277, AI735743, AI830776, AI582674, AF069762, AF188202, AF188203, AF188204, AF188201, AF169647, AF169648, and AF045528.
HCWFA63	9112	578898	1 - 349	15 - 363		AI890862, AC000025, AC007227, AC005529, AC005527, AD000092, AL049709, AC004491, AP000353, AL031295, AC002369, AC005531, D00591, AC007666, AC005736, AP000555, AC007308, AC004477, AC003684, AL080243, AC006449, AC004859, AC005913, AC007055, Z98884, AC006001, AC005513, AC000052, AF134726, AL023807, AC005291, AC004019, AL049830, AC003982, and Z93023.
HCWFA51	9113	584725	1 - 361	15 - 375		AA601216, AA603315, AA262273, AI904944, AA594018, AI565084, AA771892, W42587, AA745653, AA586433, W24312, AA558404, AA074942, AA828153, F35674, AA508069, AL037837, AA714729, AA584484, AA788951, AI018726, AW247389, AA314126, R56810, AA363003, AI049643, AA486877, AI284126, AA721530, H71678, AA721523, AA582350, H54252, AA526643, AA507993, H81732, H65213, AW088557, AA634926, H53284, N74566, AW243945, AA669560, F23307, N57674, AI039539, AA564256, AI884861, AA064978, AA678976, AI251576, AA642809, AI306232, AI620266, C06471, AI623715, AW274191, AA481765, H52397, AI583466, AI159799, AI276360, T69571, AI306717, AA678616, AI984168, AA029860, R33091, AA553579, AA018923, AA012829, AI252010, AI252880, N27615, AW188419, AA654482, AI583448, AA635413, AA321010, N54538, AA367014, AC007308, AC004531, AC005696, AL122020, AC008009, AL049709, AC007688, AL034423, AC000035, AC006430, AC002551, AC005072, AC008124, AC016027, AC008928, AC016830, AC000025,

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HCWFA35	9114	908820	1 - 352	15 - 366	
HCWFA27	9115	578899	1 - 337	15 - 351	AL022322, AC002045, AC002375, AF001549, AP000510, AC006480, AC004491, AC004150, AL133163, AC008372, AC006275, AL021155, AC002094, AC004985, AC006530, U91322, AC002400, AC005914, U91326, AC006163, and AP000032.
HCWFA03	9116	921938	1 - 367	15 - 381	AA191418, AW131043, AW020736, AI962030, AA515728, AI004591, AW020088, W39694, AA833896, AA833875, AA644090, AA578621, N22425, AA600202, AI566408, AA581247, AI001764, F13808, AA452887, AI537397, AA559208, AI590906, AW068007, AW068008, AW067788, AA526326, T15454, AA449428, AI273847, AW192284, AA365190, T72218,

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HCWEW92	9117	573389	1 - 249	15 - 263	AI446336, AA302661, AA630845, AI915081, AA084609, AA487209, AA152398, AA298365, AW264901, AA599080, AI609972, AI620992, H84412, AA493840, H86221, AW081610, H79004, F02342, AA302978, AW151533, AA513983, AA053463, AA857812, AI288033, AI049630, AI002785, H54706, AI889995, AI537800, AA528503, AA947825, AA528574, AA565911, AI359200, AA586667, AI445373, AA584756, AI250552, AA244181, AA342238, AI678476,

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HCWEW68	9118	849928	1 - 309	15 - 323	AI872229, R92703, AI521019, AI668566, AA470933, AI733523, R54095, AC004230, AL022318, AC004020, Z81450, AC005202, AC004652, AL050318, AL008716, AC006064, AC002425, AL020997, AC002476, U85195, AJ003147, AC004771, AF053356, AL021453, AE000658, Z49236, AC008018, U35426, AL139054, AC005696, AC004678, AL109952, AF060568, AC005412, AL031597, AC006441, AC005305, AC000353, AL031848, AC006312, AC005089, Z93023, AC005740, AF091512, AL021394, AL050348, AP000962, AC005600, Z83844, U80017, AC006088, AL021578, AC005031, AL035405, AC006077, AC005620, AL031432, AF205588,

HCWES28	9119	685585	1 - 114	15 - 128	AC005081, AC007421, AC004675, U70065, AL031255, AC005520, AC006538, AC004009, AC005363, AL035684, Z81364, AC002504, AC004999, AC005837, AF088219, AP000693, AC000065, Z93930, AC006449, AC005476, AL132992, AL031587, AC004097, AC005747, and AC005618. AA025970, H57826, H99934, AA303007, T50624, AA719520, AA632744, AL042927, AI791156, AI866422, AA862218, AA017323, AA174016, AA174017, AA330576, AA486896, AL035071, AL132987, AC004663, AP000347, AP000346, Z95152, AL035701, AC005323, AC006597, AC005280, AL031311, AC004929, AL022324, AC003667, AC006023, AC003080, AF134726, Z99570, AC006501, AC005207, AC002543, AL121748, AP000695, AC006084, Z97056, AC007283, AC004991, AC007057, AC006064, AF205588, AL031255, AC004019, AC002369, AC012330, AC007263, AC005257, AL021546, AP000550, AL035467, AP000356, AC008018, AC004811, AL078477, AC005089, AC003663, AP000503, AC004522, Z83844, AC002425, AC007878, AC004496, AC007021, AC005829, AL031685, AC005041, AC007055, AC006080, AC005399, AC007536, AL034548, AC006449, AC003041, AC005755, AC005015, and U52112. AI284640, AL046409, AI270117, AW274346, AI583283, AW193265, AA490183, AL038705, AI613280, AL037683, AA584167, AA581123, AI969436, AI744826, AI305766, AA587604, AI345654, AI281881, AI801482, AI350211, AI696962, AI732764, AA584201, AW021583, AI732865, AW407578, AA720702, AA602047, AW265385, AI860013, AW245747, AI559705, AA579366, AW073470, AI754336, AI375542, AA470969, AA634889, AI192631, AW408717, AA722372, AI798473, AL039932, AA682912, AW062724, AA610493, AI282511, AA551503, AW406755, AI538852, AL046205, AA502720, AI751216, AA503600, AA658362, AI580250, AW087356, AA610688, AI307608, AL042853, AL134972, AI473943, AA482711, AW419262, AW020340, AW169151, AW438643, AA483223, AI133164, T41259, AI925579, AA846935, AI110770, AI431303, AW303196, AW274349, AA126035, AA515829, AI358229, AA580808, AI962050, F36273, AI254316, AA533303, AA351056, AA649642, AW408047, AI149478, AW301350, AW276827, AW327868, AA610783, AL048925, AI625244, AA578997, AA632755, AW162049, AL045053, AI929531, AI339850, AW103758, AA662225, AA483771, AW249224, AI564496, AI365988, AW029038, N66026, AA573543, AA834707, AW075511, AW261871, AA531372, AI247199, AI754658, AA826303, AI357823, AA749235, AI744188, AI358571, AI824562, AA577906, AI873852, AA478355, AA829223, AW273218, AI345157, AA568778, AW302903, AA908468, AI568678, AI338350, AW264957, AA808877, AI570261, AA492166, AA856969, AA177061, AI634384, AW166815, AI583612, AI963720, AA491831, AA737318, AA548689, AI471543, AL041690, AA631507, AA837084, AW270343, AA713815, H71429, AI567674, AI291588, AA639326, AL120269, AI865905, AL119984, AA847952, AL038072, AI654525, AA679514, AA522942, AW148792, AA569471, AI801591, AA661921, D83989, U57009, I51997, X55925, U18391, X55927, U18394, U18395, X54176, X53550, U57005, X54179, X54181, U57008, X54178, U18398, X55929, X55933, AF077058, U67801, U57006, X75335,
HCWER13	9120	586984	1 - 262	15 - 276	

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HCWEQ61	9121	741989	1 - 473	15 - 487	AA010470, R10043, R53395, AA643395, AW172511, AI436714, AI362495, AW339340, AI858856, AW248102, and AC004230.
HCWEH95	9122	795046	1 - 263	15 - 277	N58676, AA317546, AW197056, AA782338, H53508, F02188, AA074252, AL118925, W23432, AA126252, AI275982, R89560, AA612578, H87756, AA297698, AA578621, T63057, AA736480, AA730035, AA237098, AI932900, AA665475, AA747757, AI890327, AI270177, AW022891, F31575, AA613923, T90237, AA678950, AA825827, AA086360, AW407632, R67086, AI281770, AA653713, AI132915, AA604515, AA468056, AI679390, AI679898, AA551204, AI744830, AA467938, AA071194, AI912401, AW069527, AI160682, AA002262, W60406, AI683026, AA565691, AA564925, AA302763, D83882, AI358712, AL031846, AC002511, AC005074, AC005089, AC008249, U91319, AC003091, AL031657, AC007225, Z85987, AC007226.

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HCWDO74	9123	576471	1 - 194	15 - 208	AL023882, AC005837, Z99716, AC005046, and AC005277.
HCWDO26	9124	576470	1 - 204	15 - 218	AA363027, AW087537, AA629731, AI309059, AL031281, AC004382, AL031984, L34635, AL096677, AC004841, Z69733, AC003982, AC004448, AC005345, AC000393, AL049540, AC008044, AL049709, AL121782, AC006347, AL008726, AC008545, AC005800, AF111169, AL133500, U91326, and AC002544.
HCWDI81	9125	514607	1 - 387	15 - 401	
HCWCR40	9126	711507	1 - 425	15 - 439	
HCWCN11	9127	849959	1 - 882	15 - 896	AA769123, AA831715, and W92553. AA255688, N98246, N63895, AA262567, AW166611, AW131457, AI620666, AP000240, X59875, AC005793, AL122003, AL109627, AC004859, AC005008, AC004854, AC007325, AC002310, AP000355, AL034410, AC005924, AC000061, AC004508, AL033392, AC005574, AC004383, AL031427, AC004755, AC003957, AC007981, AC005014, AL121603, AL033397, AC010209, AP000552, AC005089, AP000201, AL034374, AL021453, AC002299, AL035587, AP000097, AC008018, AC008103, AC003664, AC005776, AC002091, AC005562, AL034420, AC004056, AL031186, AC004913, AF026069, AP000550, AC004686, AC006511, AL024498, AF207550, AC005971, AC007227, AL031003, L05367, U62317, AC005255, AL133353,

HCWCM08	9128	849958	1 - 328	15 - 342	AC004975, AL079339, AC016831, AC006211, AC007324, AL022316, and AP000703.
HCWCL46	9129	719244	1 - 486	15 - 500	AA235285, and AA811938.
HCWCJ16	9130	411336	1 - 452	15 - 466	
HCWCI85	9131	840121	1 - 376	15 - 390	
HCWCH85	9132	753191	1 - 390	15 - 404	AA812111, AW023111, AA502532, AA487272, AW265342, R95840, AW304580, AA938390, AI358712, AI290107, AA182731, H71678, F24745, AA502207, AI792439, T07922, AA501461, AA601278, AI610468, AA604843, AA070899, AL045476, AW237905, AA644090, AI635440, R66166, AW188742, AA515723, AW408756, N23913, AW243831, AA284247, AI270177, AA651632, AI279417, AA828834, AW022934, AL044340, AA297145, AW166920, AA356376, AA604865, AI687343, AI745116, AW021161, AI096738, AA683069, R32162, AL049830, AC007386, AL031281, AC006014, AC004253, AC004890, AL009181, AC004520, U95090, U91326, AL139054, U67813, AC005488, AC005859, Z49866, AC004841, AC005581, AC005031, AL049569, AL035405, AC020663, AC007226, AC007536, AL049745, AL096702, AC005057, AL022476, AC002544, U80017, AC004605, AC003982, AC005911, AC006449, AL024498, AC006480, AP000053, AC005796, AC005730, Z93020, AC011422, AC005696, AC003101, AC004000, AL080243, Z83840, AL096801, AL031283, Z97630, AC005229, AC005841, AC006441, AC009247, AL132987, AC005187, AC005399, AC005839, U91318, AC002347, AC007151, AC003107, AP000558, AL133245, AL050321, AC008044, AL035422, U07561, AL096774, AF031078, AC005081, AC007216, AC004858, AL022165, AC019014, AL031311, AC007225, AC006141, AC006511, AF030876, AC005280, Z99716, AC006077, AC005736, AC009516, AL034417, AC004622, Z54334, AL023880, AP000344, Z96074, Z98742, U96629, AC005074, AC004531, AC005513, AP000459, AJ229041, Z93023, AC005722, AL035457, AC002365, AC002425, U15177, AP000692, AJ003147, AF196779, AC005846, AL031432, AL133246, AC005726, AL035555, AC003681, AC005527, AF111168, AL031295, Z85996, AC004893, AC005320, AC002404, AL035071, AC005914, AC004967, AC004659, AF051976, AC005256, Z95152, AC005531, AL022313, AC005632, AC005189, AC005500, AL031003, AL031680, AF006501, AC005741, AC004955, U95742, AC005690, AL121658, AF001552, AL096775, Z95114, AL022336, AC002039, AC005821, AL021707, AC005899, AC005291, AL133243, AC005971, U47924, AC004106, AC003029, AC003902, Z84474, U62293, AL121603, AC004815, AC005800, AL034553, AF117829, AF207550, AC002349, AC006312, AC005520, AL049872, AL049829, Z93244, AC002477, AC005041, AL078476, AC006013, AL022315, AC004650, AC004854, AC000085, AC002094, Z93017, AC005015, AC009542, AL079342, AC007326, AC008125, U67812, AL050317, AC002302, AC004797, U89337, AC006120, AL049869, AF073485, AC002312, AP000557, AC004476, AP000117, AC005837, AC004131, AC004922, AP000359, AL035659, AL031666, AC004448, AL031587, AC005358, AB023050, AL050318, AC000052, AC003110, AL096701, AC006088, AC005231, AP001051, Z85987,

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HCWCH11	9133	967666	1 - 310	15 - 324		AI021905, D44646, AW263123, T93266, and AA953383.
HCWBM07	9134	954100	1 - 470	15 - 484		H56993, H70011, R12267, H57000, H69555, H56910, R11661, R16743, R09996, T77907, T77822, H56905, Z56468, and Z61918.
HCWAN45	9135	728385	1 - 989	15 - 1003		AC006504.
HCWAI53	9136	586997	1 - 288	15 - 302		AA635368, AA381762, AL039309, F31811, AA381747, AA278496, AP000553, AL096791, Z94801, AC004263, AP000255, AC005387, AC005971, AL133245, AL109628, AP000135, M87909, Z98051, AC004821, AP000031, AC004257, AL132712, AL035405, AC004858, AC002400, AP000048, AC007308, AC007285, AC002470, AL080243, AL022163, AC005288, AC004596, AC002985, AL021578, Z97876, AC009516, AL035086, AL035413, AC006271, AL034420, U62293, AL034379, AF109907, AP000211, AP000133, AC005412, AC005808, AL049569, AL121603, AC004216, AC004222, AC006449, AC004854, AB015355, AL031846, AL020995, AL121655, AJ003147, AC006468, AC003104, AC005197, AF196969, AC007842, AC020663, AF111168, AC006111, AC004526, AC002369, AC005562, AL022323, AC006121, AL034429, AC006006, AF205588, AC005796, Z69705, AC000035, AC002119, AC009247, AC004929, L78833, AC005180, Z85986, AC007226, AL121825, AL033376, AL009181, Z69653, AL022313, AC007263, AC004754, AC007774, U91326, AP000505, AC005624, AC004983, Z83844, AC005701, AL031282, AC007225, AC005520, AP000503, AL008719, AF134726, U73636, AL139054, AC004000, AL023513, AC000003, AC005015, AL031427, AC005225, AC005529, Z82244, AC004874, AL031432, AC002310, AF001549, AC004967, AC004019, AC005102, AL031670, AP000512, U52112, AP000032, AC005222, AC005839, AL031985, AC005914, AC006077, AC004638, AC004478, AC005207, Z97054, AC002425, AC006285, U29953, AC005081, AL022336, AC005619, AC004814, AC000025, AC006210, AC005940, AL020997, U57007, AL031178, AL008735, AD000092, AL035448, AC004230, AC016025, AC000075, AC012384, AP000030, Z83840, Z92542, AC004228, AC006441, AC006026, AC005736, AC004690, AC004552, AF045555, AB023051, AC006505, AL022721, AC002477, AL121658, AL049694, AC006312, AL133448, AL034423, AB001523, AL031774, AP000023, AC005484, AC000052, AC006597, AF129756, AC005907, AC004991, AC005057, AC004253, Z98048, AC006001, AL049539, AC005694, AC007406, U95742, D87675, AC004531, AC004678, AC006581, AC007684, AC004771, Z93930, AC005089, AL050332, AL121653, AL034417, AL021154, AL078581, AC006023, AC005841, and AL022476.
HCWAB85	9137	783392	1 - 299	15 - 313		AW268090, AA579278, AI031759, AA525156, AI828721, AA847341, H79277, AI570067, AI567676, AA507623, AA460714, M77964, AA635150, AA309287, AA364147, AI245693, AI308529, AA468923, AI174827, AA878140, AA467740, H47461, AW028376, AW023975, AI003474, AA515727, AI370470, AA664963, AA661590, AW188742, H62123, AA578711,

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HCWAB72	9138	766288	1 - 198	15 - 212	<p>AA528462, AI698478, AI821420, AA568399, AA568400, AA568416, U85195, AE000658, AL049569, AB023049, AL022323, I48038, AC004865, AC005071, AC005940, AF205588, AC007242, AL021154, AC004686, AC000026, AC004802, AC004837, AC007160, AC002059,</p>

HCWAB49	9139	529659	1 - 51	15 - 65	and AL021546.
HCWAB37	9140	575491	1 - 250	15 - 264	<p>AI053583, AW028950, AI082632, AI792539, AA320852, AA887406, AA373861, AA557493, AA513219, AA598605, AA551067, AI860423, AA513851, F30586, AI734837, AI452863, AI336771, AA715814, F35689, AA230025, AA468371, AA493789, AA224889, AA468505, AA378474, H86801, AI109984, AC005233, AC003684, AI031848, AC006450, AI031589, AC005089, AF024533, AC002395, AC007546, M63796, AC006948, AC005952, AF111168, AC000070, AC006388, AL022165, AI132987, AC007685, AL079340, AC005015, AC005527, AL008734, Z49236, AC005529, AC002544, AF205588, Z97055, AI031602, AC006512, AP000500, AC002565, AC005726, AC006023, AC005512, AC004858, AC005057, AC005914, AC002398, Z93244, AI009179, AI031431, AC005793, AC000024, AI021918, AL049776, D87011, U91326, AF109907, AI096766, AC005229, Z98036, Z86061, AC005924, AC005520, AC004838, AI049694, AC005088, AC004651, AC005519, AC005399, AI031291, Z98742, AI031670, AC002303, AC005940, AC005484, AC005828, AC004526, AI121754, AC002511, AI117337, AC004659, AI109628, AC002470, AI109627, AI049766, AL022302, AF092859, AC006146, AL022311, AI021940, Z86063, AC004851, U62293, AC006441, AC005071, AC005880, Z86090, AC007227, AC006453, AC006079, AC006111, AC005218, AC004811, AC003108, AC005231, AC006011, AB013924, AC003667, Z93930, AC009275, AL022316, AC005081, AC006952, AC005004, AC007386, AC006211, AF196972, AC004777, AC004804, AI080243, AC002287, AI035587, AI132712, AF111170, AC005808, AC005076, Z97054, AC004525, AC006468, AR004690, U07561, AC004849, AI109798, AC009516, AC007376, AI022320, AC004770, AC004491, AC004771, AC004228, AC005632, AI031284, AC004106, Z97630, AI034449, Z83846, AI133163, AC005730, Z75407, AC009247, AC004890, AL049869, AC007151, U02051, AC004893, AI121603, AC004148, AC004765, AC005666, AC004883, AC004854, AI021393, AP000113, AE000660, AP001046, AC005625, AC005874, AF134471, AI031767, AC004938, AI050307, AC007283, AC008115, AC007566, AI135960, AI131016, AC004560, AI020997, AC006277, AI096761, AP000116, AC007030, AC008041, AC002997, AI031133, AI096791, AI022326, AI251973, AI035659, AI022312, Z98052, AC011311, AI034549, U61981, AC005306, AC004929, AC005772, AC008056, AF001552, AC003041, AC009721, AC004805, AC005871, AC007999, U07563, AC003025, AC006597, AI022322, AI121653, AC004881, AI021155, AI024498, and U89335.</p>
HCWAB36	9141	529660	1 - 230	15 - 244	
HCWAB35	9142	416968	1 - 209	15 - 223	<p>R95748, AA721645, T58440, F35097, H85059, R70333, AA152404, AA358623, AA227482, AA347232, AA857381, AA908431, AA836548, R33941, AA508873, AA318064, AA187338, AA713715, H86105, AW272606, AA664163, AA608729, N24473, AI569363, AI754064, AA559219, AI086603, H86095, AI873627, R22196, AA503468, AI476372, AA533176, R79396, AA975997, AA481887, N58464, AI491765, AA648957, AC006449, AC005520, AP000496,</p>

					AC007099, Z95114, AC002477, AC007637, Z98742, AC005696, AL096678, Z98743, AL031657, AC006328, AC005193, AL022326, AC005225, AC007899, AL022315, AP000355, AJ246003, U07000, Z98946, AL031229, AC005089, AC005377, AC005971, AL022328, AC005625, AL121658, AL031258, AL022476, AC007845, Z98304, AL031428, AL022302, AC004408, AC004491, AC005969, AC006254, AL117258, AC006515, AL096774, AC016026, AC005519, AC005527, AL031597, AL121652, AP000212, AP000134, AP000354, AL031848, AL031668, AC004796, AL049694, AC006121, AC004605, Z84469, AC006277, AC008033, AL139054, AC004073, AC006454, AL050338, L44140, AP000502, AL109952, AC007666, AC007201, AP000688, U73023, AP000555, Z85996, Z84487, AC005747, AC005015, AP000010, AC005529, AF038458, AL031710, AC005412, AL137100, AC005257, AC007686, AL078477, M29929, AC005702, AC000159, AC004148, AL133245, AC004967, AL049653, Z93017, AF134726, AC006946, AC004383, AC004851, AC005081, AC006317, AC006070, AP000251, AC005829, Z86061, AC006480, AC004878, AL035460, AC006241, AC006039, AC002389, AC005071, AC004024, AC004644, AC004686, AC006285, AC010170, AL031177, AL133500, AC005911, AP000557, AL035684, AC007226, Z95115, AC016025, AC007225, AL022334, AC006111, AL031284, AC005067, AL031650, AC005620, AC004228, AC006312, AL049872, AL022163, Z83838, AC002369, U47924, AC005102, AC006512, AL121603, AL049748, AC006552, AC006538, AF109907, AL034429, AC004821, AL080243, AC005229, AC006511, AC005736, AC007051, AC003029, AC006443, AC005778, AC006130, AC002126, AC007919, AC005004, AP001052, AC007298, AL133512, AP000030, AL021917, AC006211, AC007314, AC004386, Z98749, AC005954, AC005484, AC004217, AB023051, Z99943, AL022314, AL031289, AC004400, AL121754, AC004675, AC005300, AC006061, AC004955, AC002565, AL031767, AC008055, AL023799, AC005399, AC007279, Z98941, AC006127, AC006966, AC007488, AC004858, AC003108, AC005921, AC005914, AL109798, AL031730, AB017567, U82668, AL135744, AC002470, AC005358, AL133238, AF205588, AL049758, AC005746, AC004447, Z68284, L05367, AC003036, AL031291, AF088219, AC007151, AC002996, AL022312, AP000257, AF187320, AF196779, AC002400, AL031673, AC009248, AL020997, AC005594, AC005180, AC006077, AL034423, AC006160, AL121653, Z69917, AC004883, AC005839, AC003013, AL122023, AC007011, and Z98885.
HCWAB25	9143	575270	1 - 151	15 - 165	AA630672, AW148507, H18914, AL047429, AA640410, AA640430, AA127426, AI292257, AI537772, AI249473, AA838190, AI054354, AA720732, AA961035, AI251576, AA664942, AA283730, AA128511, AI630176, AA954924, AI040051, AI306232, AA324242, AI434695, AA018207, AA714011, H25921, AW410354, AA101689, AI341571, AA629872, AA507612, AI583466, AW303096, AW268291, AW274191, AI802801, AA504049, AA507187, AI783549, AA749235, AA574442, AI085867, H29511, T06598, AA661499, AA583394, H15652, AA993818, AA610509, AA070345, AA535216, AL044940, AI002744, AA629540, AW439555, F15832, AI460009, AA554634, AP000012, AP000153, AC005578, U67820, AC000087, AC007536,

					AC007225, AC005228, AC007731, AC005500, AL109627, AC005808, U72789, AC007421, AC004531, AC005796, M13792, Z97054, AC004237, AC004595, U18271, AL022322, AL096703, AF065396, AL117337, AF207550, AL110502, AF111168, AC004922, AL031774, AP000513, AC006121, AC005755, U62317, AF205588, AC003030, AL021407, Z69705, Z73417, AC004033, AC007539, AC005332, AL022312, AB000931, AF165926, Z82178, AC005781, AC005207, AF109907, M22403, AC005696, AC006277, AC004754, AB003151, AP000688, AC006065, AF010238, AL035462, AC005399, AF200465, AC002404, AC004707, AC003678, AC007993, AC004000, AC006353, AL022165, AC007406, AC005971, Z69925, AB026584, AC005619, AC006501, AF106202, Z86090, AC002549, AC004069, Z95116, AC006511, AC008044, AP000023, AL049766, Z99716, U40369, AC006530, AC005274, AL031228, AL031767, AL078472, AL024498, AL021978, AC006195, AL008708, AL080317, AC007774, AL133448, AL031283, AL049780, AC002219, AC007462, AC002477, AC005288, AC008014, U95742, AC006120, AC000081, U95740, AL034343, AC005231, Z85986, AC004051, AC006254, AC010722, AC005069, AC005756, AL022315, AL022328, AC005876, AB023049, AL022323, AC004686, AL049871, AC008072, AC009288, AC003681, AL035078, AP000156, AC005203, AF030453, AC004217, AL035398, AC005104, AJ010597, Z98946, U91326, AC003029, AP000014, AL031258, AL049839, AC002128, AC000041, AL031652, AC006509, AC002565, Z98884, AC005291, AL020997, AL022398, AC005088, AC005156, AC006965, AP000558, AC007216, AC004975, AB006903, AC005800, U16300, Z83845, AL034549, U73641, AC005527, AL008715, AC005209, AP000302, AL034553, AC005512, AL109628, AC010170, AL008582, Y14768, AC005903, AP000501, AL022336, Z85996, AC004478, AC005081, AC005330, AC004263, AL021977, U71218, AL035587, AF064861, U85195, Z84721, AL034418, M63543, AP001038, AC004024, AC004491, AP000505, AC008041, AF045555, AL117356, AC004465, AF024533, AC007676, AL022320, AC004878, AC005575, AC002312, and AL133245.
HCWAB23	9144	529664	1 - 291	15 - 305	AW136667.
HCVAC86	9145	785784	1 - 311	15 - 325	AA805869, AA665449, AI354847, AA621838, AA601376, AW021161, AA679532, AW022934, H73230, AI753488, AA443390, AC002477, AC004895, AD000092, AL021391, AC005529, AF195658, AC005015, D88268, AL023494, AL049780, U73647, AC005527, AL023807, AC005911, AL109758, U95742, AC005778, AP000512, AC008122, AL021878, AC006530, AC007226, AC004953, U07563, AL096701, AC016025, AJ003147, AD001502, AC005725, AP000514, AP000009, AL133245, AC004638, AC005288, AC006285, AL121603, AC005399, AC005920, AC005618, AC005971, AC004655, Z95114, AP000553, Z93017, AL050348, AC007666, AL050341, AL121754, AC005180, AL034374, AC003077, U91326, AC007298, AL049748, AC010170, AL031680, AL022316, Z93023, AC006359, AL049636, AL133448, AC004491, AC004253, AL021807, AL008726, AL050308, AC005520, AL133312, AC007216, AC005081, AL031681, AC006042, AC005209, AL008582, AC005531, AL034420, AF001549, AC004024, U95740, AC005011, AL080243, AC007546, AC006312, AC005207, AL096775,

HCVAC80	9146	529688	1 - 302	15 - 316	AL034379, AC006509, and AC007536.
HCVAC73	9147	529687	1 - 352	15 - 366	AA935456, AW004884, AW338179, AA223174, A1917134, H82265, AL049697, AC004000, AC005971, L78810, Z84480, AC002550, AC008372, AC005071, AP000500, and AL022336.
HCVAC72	9148	529693	1 - 247	15 - 261	AL008583.
HCVAC70	9149	507284	1 - 801	15 - 815	AA196390, AA196468, AA507837, AI537538, AA845293, AI051037, AI500454, AL038936, F27015, AI446601, F23315, AA772016, AI982634, AI954525, AI744949, AI708005, AA064938, AA229444, AW157005, AC001228, AC005996, AC005210, AC007436, AJ003147, AC005399, AC005725, AC006486, AP000038, AP000106, AL031255, AC005324, AC005539, AL022163, AL049569, AL009179, AL031685, AL021938, AL121653, AC007792, AC012083, AC007066, AC006544, Z93017, AC005412, AL035587, AL008715, AC007344, AC002369, AC003029, AC005536, AP000210, AP000132, AL035443, AL133245, AC005531, AC005914, AC004087, AL033392, AL031774, AL031846, AC004000, AL096767, AF091512, AL031055, AC006111, AC005722, Z95116, Z74739, AL049829, AC004209, AL109628, AL096701, U53930, AC003954, AC005696, AC005529, AC008033, AL034417, AC004019, AL034420, AC020663, AC003964, AC004918, AC002994, AC000052, AC005988, AC005089, AC004922, AP001042, AC002996, AC005081, AC005911, AL132712, AC005823, AP000248, AF205588, AL109984, AP000045, AC004921, AC006063, AC004794, AP000503, AC007899, AC005237, AC000003, AL133246, AC004652, AC005520, AC005822, AF134726, AC004996, AC005763, AC000353, AC006512, AP000556, U85196, AC004797, and AC005406.
HCVAC58	9150	575510	1 - 337	15 - 351	AA292581, AA478127, AA978079, AA504702, W31736, AA636102, AA075369, AI927261, AA678950, AA298192, N22153, AW407632, AW073498, AI929410, AI753672, AA469441, AI750950, AA745302, AW057873, AA578621, AA847427, AA847508, AA662615, T03678, AI921619, Z98474, AA708651, R17935, AA076130, AA743299, N55076, H65911, AA467774, AA196412, Z98475, AI932871, AA834686, AA491985, AA748102, AI799421, AA282951, T59438, AA250776, AA856817, R48980, AI348467, AA302763, AA115865, AA488687, AA363957, N30016, AI569700, AA507993, AA524821, AI924954, AI908424, T86603, R53995, AI251024, AA065155, AA247477, AI453160, AI564294, AC007671, D83737, AC006962, AC006057, AC003013, Z96776, AC004611, Z99127, AC005663, AF155238, Z83840, AL049709, AC005664, U82671, AC007358, AL035405, AC006547, AL031659, AL121757, AC004825, Z79998, M33132, AC004185, AC006047, AL078611, AC000091, AC004656, AL049612, AC004992, AC004100, AP000509, Z98036, AC005552, AC006064, AC005081, AC002365, AC009294, D84394, Z69366, AP000228, AP000140, AP000088, AC006479, AF147446, AC005775, AC004466, AD000092, AF078847, AL133245, Z80999, AC005765, AC004257, AL031186, Z82243, AL049714, AL031732, AL021453, AL049698, AC007199, AL050321, AC002119, AL049843, AC003025, AL031276, AL031685, AL031291, AC003982, AL034402, AC004518, AC004876, AC007283, AF165138, Z95115, AC004540, Z94277, AC004967,

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HCVAC47	9151	861969	1 - 326	15 - 340	AW138257, and R52839.
HCVAC45	9152	529691	1 - 275	15 - 289	AW364634, AA158320, AL046752, AF006515, and U91543.
HCVAC38	9153	529692	1 - 307	15 - 321	
HCVAC33	9154	529694	1 - 318	15 - 332	
HCVAC26	9155	529698	1 - 404	15 - 418	AI217108.
HCVAC21	9156	529695	1 - 209	15 - 223	
HCVAC19	9157	879694	1 - 319	15 - 333	
HCUJO6	9158	934889	1 - 641	15 - 655	
HCUIM28	9159	849998	1 - 417	15 - 431	AI004352, and AI249075.
HCUJK74	9160	765645	1 - 723	15 - 737	W40368, and N93875.
HCUHY13	9161	657297	1 - 374	15 - 388	T47291, and AI821037.
HCUHY10	9162	964727	1 - 410	15 - 424	H94965, and AL031295.
HCUHU61	9163	850008	1 - 381	15 - 395	AI002934, and AC007377.
HCUHU54	9164	730739	1 - 355	15 - 369	R82557.
HCUHT92	9165	792756	1 - 404	15 - 418	R06688, AF017104, and AC016831.
HCUHT74	9166	765641	1 - 313	15 - 327	AA640094, AW188559, AW317075, AW238253, Z98885, Z83844, AC007686, AL008730, AP000501, Z95114, AF207550, AC004623, AC005089, AC005821, AC007773, AP000343, AL035461, AF001550, AP000556, AL022328, AL078611, AC005988, AF053356, Z97054, AP001067, AC009044, AC005921, AC005288, AC009336, AL031228, AP000354, AC007160, AC002477, AC002314, AL121915, AL121653, AC006449, AC009516, AC005519, AC005914, AL049712, AC005015, U96629, AL050318, U85195, AL035681, AE000658, AC005776, AL121603, U91321, AC007216, AC005755, AC005808, AL034421, AC008372, AL049553, AC005409, AC004000, AL049757, AC004084, AC003007, AC020663, Z99716, AC005488, AC005829, AP000553, AC005480, AL031670, AC007540, AC005099, U95742, Z84572, AL031685, AL031281, AP000355, AC005632, AC005523, AL034417, AF001549, AL049872,

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HCUHT37	9167	575794	1 - 236	15 - 250	
HCUHT26	9168	681874	1 - 105	15 - 119	
HCUHT13	9169	657295	1 - 230	15 - 244	AI890348, AI754955, AA318822, AL134330, AW303196, AW301350, AI284640, AW440976, AW236342, AW274349, AI084012, AI267847, AW129001, AI569202, AA171513, AA491762, AI334443, AL138455, AI133164, AI291124, AI291268, AI061313, AI537030, AI144055, AL041690, AI370475, AI110770, W60516, F29989, AI610920, AL119691, AW301818, AI016000, AA601680, AI565245, AW440836, AL039958, AA932012, AI904894, AI053429, AI205126, AA557325, AL042756, AW272758, AA599141, AI133262, AA626678, AL037554, AA515224, AI054246, AI820539, AL041368, AA826303, AA569187, AA366035, AA826032, AA587604, AA569193, AI358229, AI345695, FI9258, AW086257, AW406755, AW268300, M62249, AI299050, AI365988, AA558697, AA993198, AL120674, AI282336, AI053816, AA985357, AW406447, AW339687, AI307426, AL044940, AA581903, AI635272, AI049722, AA557879, AW074398, AA229785, AA743972, AI133636, AI281903, AW403720, AW196798, AA654968, N71724, AI251002, AW008212, T06828, AL120976, AL138265, AW361583, AI474085, H64777, AI433187, AI648558, AI962050, AA862173, AA639270, AA602069, AA501614, AI537556, AA340003, AA661948, AA916039, AI580652, AI859834, AI890923, AW440633, AI679782, AW249470, AI654529, AL118947, T39598, AW419262, AA503258, AI339850, H59023, AA665757, AA747480, AL040130, AA654627, AA515051, AW029038, AI929531, AA584145, AA179147, AA128592, AW193295, AI951436, F36273, AW166815, AI537185, AI830390, AI821356, AI246331, AA077223, AA488395, AI818620, AI053672, AW162049, AI654659, AA570416, AA308806, AI053469, AA663482, N27351, AI053489, AI254798, AI912322, AI754253, AW089789, AI921296, F33121, AA299115, AL040913, AA747375, AI287284, AI625244, AI917271, AA663306, AA317170, AA932099, H57849, AI471481, AA284179, AA665330, AA713815, AW410116, AI076616, AC004991, AF152365, AL031313, AC004695, AC007773, AC004990, AC003009, E01888, E02193, AF015152, L29074, AL117256, AC002545, AF178081, AC004743, AC005072, AF128525, AC005031, AC005288, AC003030, AC005520, AC004595, AC004913, AF129756, AC002456, U80017, S75201, M19045, Z93783, U91319, AC006130, M37551, X14008, AF006752, AL110150, AC006222, AP000251, AC008125, L35531, Y14768, U91327, AC006539, AC008122, AC006157, AC005165, AP000272, AC004859, A39972, AP000128, AP000206, AP000505, AC002077, U07562, AJ003147, AC006312, Z83840, AC004491, U73024, AC006362, AL049643, AP000030, AL031904, AL035699, U57009, AC005035, AP000245, AL031643, AC006581, AP000274, AC006597, AL080278, U67208,

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HCUHT03	9170	924494	1 - 540	15 - 554	H55902, H61877, AA978266, AC005049, AC004143, AC007055, AP000553, AL049780, and AC003037.
HCUHS21	9171	670988	1 - 488	15 - 502	T83209, and AL031985.
HCUHO27	9172	690027	1 - 485	15 - 499	AW182457, AI922795, AA441989, AA974771, AA031704, AA976534, AA152220, AA045294, AA731356, AW292805, AW148422, AA810540, AI800594, AI305839, AI458862, AW052091, AI824266, AI302809, AA716336, AA448335, AI278475, AI769897, AA461046, AI307309, AA974453, AI474422, AA449267, AA058688, AW195361, AI735273, AI691016, AW055187, AI740946, AA160279, AI200257, AW272744, AA099553, AI597746, AI239461, AI199994, H93009, AW057512, AA088175, AI128201, H64964, AI824017, AI699923, AA045521, AI278932, AA582895, AA709030, AI361585, AI261533, AI373386, AI263085, AI671224, AI300367, R97096, AI628787, AW271301, AI149430, AA040431, AI707638, AI161128, AI091306, AA035209, AI758904, AI418284, AA411404, AA576365, N59386, AI741604, AI880867, F20467, H13276, AA502528, T96890, T97469, AA713812, AI933321, N47960, AA736644, AA502505, N49171, and AA502417.
HCUHO13	9173	879921	1 - 1057	15 - 1071	AC003071, AC004462, L77570, AL049795, AC004508, AC006543, AC003043, AC008115, and AC006544.
HCUHK11	9174	967142	1 - 423	15 - 437	AI207952, AA653238, AC003119, and U91325.

HCUHH95	9175	941943	1 - 2159	15 - 2173	<p> AW151541, AI521525, AW020150, AL041924, AL041375, AA904211, AI926102, H71678, AA703818, H77492, AA487569, AI299891, AI819419, AA525753, AW008184, F29968, AA809125, AA601712, AA489390, R99253, AI984168, AI473671, AA557945, AA226356, AI358928, AA420801, AW238341, AA669238, AA019973, AA831714, AW238712, AI753887, AW338035, AW338021, AA533660, AA523812, AA013168, AI434686, AA425283, N92588, AI338117, AI800426, N54538, AA814503, H59429, AI926706, AI344906, AW008217, AA636077, AA564256, AI266359, AI690379, AA714011, AI744963, AI537368, AW151247, AI086603, AI791659, AA533066, AI857834, R22196, AI912401, F23338, AI733856, AI682899, AL035977, AA595661, AI580260, H72947, AA639025, AA492298, AW238655, R44593, AA577706, AI446623, T74524, C06028, W60077, AA676592, N95424, AA829565, AI003988, H07953, AI475297, AI279417, AI936229, AA135761, AA846923, AL136295, AC005821, AL133353, L35532, AL096701, AC005971, AC006468, AL132642, AC006480, AC004771, AC005355, AC005476, AC004694, Z85987, AC006312, AL022327, AL031311, AL023575, AC005484, AC005913, Z84466, AC006328, AC002563, AC002314, AC003982, AF207550, AC003956, AL133243, AC005215, AC002492, AC005412, AC007064, Z83838, AC004656, U47924, AC016831, AL035086, AL035462, AP000156, AC005790, AC005529, Z98200, AC005911, AC004148, AC004112, Z93241, AC006208, AF196779, AF064857, AL031295, Z97989, AC003038, AP000157, Z81364, AC007376, AC006449, AC005947, AC005082, AL109613, AC015853, AC007546, Z82188, AC006132, AF001548, AF217403, AC005527, AC000378, Z98304, AP000552, AC004998, AP000117, AC007030, AL031276, AL008723, AC005514, AC004560, AC005014, AL109758, AC003688, AC005392, AC002476, Z93244, AJ003147, X55448, AC004765, Z94161, AC005740, AC007919, AC005534, AF196969, U78027, AC004032, AC004156, AC005067, AP000049, L44140, AC004605, AP000014, AB023050, AI031284, AP000511, AC005225, AL031681, AP000193, AC007686, AL021978, AC006006, AC007934, AC004382, AL021546, AL049759, U91321, Z98044, AC004938, AP000247, AC005781, Z83844, AC005255, AC006965, AC000025, AC004383, AP000116, AC003049, AC003041, AC006548, U63630, AC006597, AC004008, AL031602, Z93023, AC007283, AC005765, AC004448, AC008545, U62317, Z98036, AP000311, AC005602, AC007227, AC004887, AC007664, AL022238, AC002347, AJ229041, AL035587, AC005899, AC005081, Z84474, AL021918, AL035422, AC007707, Z95114, AL022330, AC007262, AC006236, AC004797, AC005004, AC000379, U89337, AC002357, AC005280, AC005193, AC008040, AL049856, AC004540, AP000240, AL121754, AC004890, Z86090, AL109984, AL049576, AL008715, AC005808, AC005013, AD000864, Z82178, AC006351, AC004801, AC004832, AC004975, AL022318, Z97056, AC007421, AC007051, AL035443, AC006163, AP000251, AC007242, AC010168, AC003690, AL021154, AC004881, AC007021, AL049709, AC005231, AC000095, AP000208, AP000130, AC002316, AC002312, AC004854, AC004650, AC003108, AL132992, AL035682, AC005940, AD000812, AC003950, AC004678, AC003043, AL022326, </p>
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HCUHH04	9176	927500	1 - 617	15 - 631		
HCUHG67	9177	751673	1 - 746	15 - 760		AA234116, AW206772, AA234502, AW070295, AI274150, AA988179, AA729222, AA935521, AI382892, AA760987, AA989246, Z25141, AI728768, and AA812549.
HCUGT86	9178	784694	1 - 308	15 - 322		AI073478, AI247707, H54558, AI475033, AI084526, and AA861990.
HCUGS67	9179	751669	1 - 436	15 - 450		AA056567.
HCUGO07	9180	953412	1 - 305	15 - 319		AI719906, AA640632, and AI961282.
HCUGN19	9181	716989	1 - 584	15 - 598		R83518, H01355, R83503, AA204689, AI990886, AI660160, H45024, AI300806, AI969915, AI927423, AI457940, AI744631, AI928256, AI380503, AI867197, AW237763, AI800708, AI588959, AI765531, AW300271, AI830241, AI762594, AA828477, AW058189, AI871379, AI740633, AW301155, AA937166, AW316942, H44971, AA804639, AA535256, AW071230, R31122, R65687, H01309, H28671, AI829069, AA767789, AA953355, AW138552, AI870155, AI092045, and AA207090.
HCUGM93	9182	792329	1 - 313	15 - 327		N71632, AA826313, and AL034553.
HCUGM64	9183	745853	1 - 316	15 - 330		AA027349.
HCUGL20	9184	668913	1 - 445	15 - 459		R93212.
HCUGL01	9185	916550	1 - 150	15 - 164		AA835450, and AC006947.
HCUGK86	9186	785517	1 - 363	15 - 377		N88518, AA095359, AA096066, N84718, N83993, AA247827, N84048, N87989, N83168, AA247964, N84828, AF039698, U48696, and S78798.
HCUGK85	9187	783521	1 - 317	15 - 331		W92485, R92971, AA715876, AA063420, AP000098, AC005089, Z83846, AF001549, AD001527, AC005632, AL133163, AC016830, AC003982, AC003663, AC003072, AC005736, AC005291, AL021917, AC016027, AC005529, AC005225, AC004821, AC004890, AL035405, AL121653, AP000501, AL031295, AL031594, AF047825, AP000211, AC004797, AC004806, AC007308, Z93020, AL022721, AL096703, AC003043, AL031588, Z98742, AC005527, AC004491, AC005412, AC007421, AC005722, AC007637, AL031733, AL049869, AC005921, AL139054, AP000240, AC004019, AL035587, AC008101, AL021707, Z99716, AC006285, AC006480, AC003003, AL133245, AL035681, AL035665, AL117352, AL031281, AC005484, AC006115, AC008372, AC005520, AC005317, AC005519, AC004033, AC007686, AC005828, AC007227, and Z74739.
HCUGK78	9188	773601	1 - 215	15 - 229		AA493894, AI566408, AI124664, AA581263, AW084246, AA706291, AL037771, AA601376, AI369580, R10475, AI064918, AA858372, AA372949, AI591375, AW339622, AA736695, F08248, AI053911, AL040054, AA618452, F35374, AA557579, AI821608, AA069473,

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HCUGK64	9189	746604	1 - 205	15 - 219	F17020, T07724, AI955960, T58224, H72947, H59429, AC006277, AF001550, AL021808,

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HCUGK54	9190	730709	1 - 118	15 - 132	AA484273, AA484304, AW338783, AA171478, H49471, AA650075, AF126483, AE000661, AP001052, Z84469, Z82248, AL035420, Y10826, AL132987, AC006111, AP000099, Z83822, AC002546, AP000036, Z82976, AC006026, AL080243, AL023575, AC003665, AC008040, Z68279, AF001549, AC002098, AC007685, AC002551, Z94044, AC005005, Z83838, AL021578, L44140, AC006344, AC003684, AP000260, and AC005273.
HCUGK51	9191	725013	1 - 307	15 - 321	AA658862, AI249473, AA629872, AW130335, AL047429, AI306232, AW274191, AA653854, AA831903, AI583466, AI251576, AI829831, AI911671, AI583252, AI188390, AA736557, AI307201, AI278678, AI570829, AI334818, AA872491, AA626432, AW084445, AW304580, AI635819, AI338386, AA613624, AA653139, AA224889, AA502991, AI890324, AI708009, AI358089, AA354822, N24133, AA715706, AI609972, AA814622, AA829036, AI612142, N33763, AA164684, AI623764, AA720732, AA776032, AW438539, AA167527, AA595661, F11718, N24793, U57009, U57005, U18398, AC004983, M87914, AL109798, S42653, U02532, AP000211, AP000133, AC020663, AF095901, Z82215, AC006285, AC005332, AC003041, AC005901, AJ003147, AC007731, AC006013, AC000070, AL109865, Z98051, AP000517, AC016025, AP000691, Z69706, AC005500, AC006077, AL031311, AC004702, AC007536, AC006509, AC006511, AL020993, AL109801, AL031295, AL049766, AC004491, AC006441, AB015355, AC005180, AC002352, AC007384, AC005914, AC002301, U50537, AC005231, U95742, AC004235, AC007216, AC002430, AC005696, AC007685, X53548, AC005225, M30688, AC005899, AF031078, Z82244, AP000555, AC004821, AC005387, AC007308, AC000052, AC005531, AC005067, AC003109, AC007136, AL035659, AC007066, Z97053, AC004000, AC005257, AL049872, AL035467, AC005190, AL023807, AC005399, Z82976, AC005726, AC005274, Z97876, AC005815, AC002425, AF053356, AL008721, AL035086, AL035450, AC006449, AC004020, D49558, AD000864, AJ011713, AP000432, AL031291, AL034429, AF015148, Z68756, AL022302, AF030876, AC002316, AC004234, Z82217, AC004583, AL035685, AL049758, AL031283, AL049576, AL096774, Z93020, U73024, AF001549, AP000558, U95740, AC005378, AC005355, AC005377, AC005746, AP000359, AL021453,

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HCUGK38	9192	706479	1 - 160	15 - 174	AA329625, AW270474, F03001, AP000355, AC008115, AF017104, Z84480, AC003025, AL049631, AC005531, AL109627, AC004228, AF139813, AC022517, AC005696, AC005412, U62293, U63721, AC002470, AC006088, AL110502, AL121653, AC004491, AC005065, AC006211, AC005911, AL035587, AP000045, AC002036, AC006571, AL133243, Z98742, AC002492, Z77249, AC005072, AF038458, AC005899, U91323, AL020993, AP000153, AP000032, Z85987, AC008040, AC005049, AL031432, AC006449, AC005602, AC004887, AL049793, AC002565, AP000356, AC004967, AL022313, AC003101, AF001548, AF053356, AC007130, AC003969, AC006529, and AC006515.
HCUGK25	9193	678130	1 - 152	15 - 166	AA661921, AL043289, AA401240, AI133297, AA613591, N71746, AA404287, AA482711, AI174766, AA063173, AW275510, AW301995, AW303002, AA834707, AA702729, AA747070, AI284640, H23653, AI345366, AI310873, AW163293, AL042753, F36306, T25806, AL036037, AW075511, H71429, AA129746, AW268757, AA101689, AI368745, AA493695, AW084466, AW021735, AI821494, AL038606, AL037683, AI064952, AA483929, AI349817, AI805363, AI963720, AA809479, AL135377, AW023990, AA455670, AI583283, AI270117, AA513893, AA127426, AA618452, AW268954, AW270343, AA493975, AI345157, AL138455, AA490183, AA299189, AA669155, AW021597, H42271, AA630672, AW021207, AA584805, AA602047, AI345827, AI818231, AA047715, AI254654, AA579179, AA847499, AI027459, AI821918, AL045808, AL046156, AA758366, AI687343, AI821881, AA984801, AA757775, AL046746, AC005740, AL022721, AB023798, Z94801, I34079, Z83844, A67988, AL133448, AL078581, AL035587, AC005778, AC007382, AC008044, AL121603, AL022329, AL096701, AC004030, AF111168, AJ010770, AC004195, AP001052, AC008080, I44140, AC005261, Z83845, AC002470, AF205588, AC005548, AL109758, AC004623, AC004883, D87008, AF114156, AF111167, X06123, AC006112, AF039906, AJ003147, AL021977, AC003957, AC007193, AC004881, AL021155, AC004865, AL135744, AC002070, AL049871, AL022323, AL031670, Z82198, AC005696, AL133241, AC002527, AC002425, AC005234, AC006466, D88268, X68090, AC005280, AL117355, AC006581, AL121654, AL008726, D83989, AC005164, AC002455, AC007308, AC005971, AL049552, AC000003, AL031295, AC020663, AF126531, AC004890, AC007051, AC005907, AL049825, AC009516, AC004150, AC002350, X61109, AC005776, AC003070, AC005567, AF129756, AB020865, U67229, AP000555, AC002073, AL033543,

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HCUGK18	9194	666454	1 - 285	15 - 299	Z82206.
HCUGK17	9195	424102	1 - 296	15 - 310	AA167506, AA745302, AC005102, AC004851, AC004491, AC006449, AL031848, Z98884, AC005005, AC005412, AL121754, and AL035458.
HCUGK14	9196	657539	1 - 269	15 - 283	AW044407.
HCUGK05	9197	932078	1 - 203	15 - 217	AW409621, AW409626, AC006123, AL022396, AC007536, AP000557, AC005736, AC003104, AC002132, AC004955, AL008582, AC004797, AP000556, AF006752, AC007386, AC005280, and Z82901.
HCUGI64	9198	746608	1 - 347	15 - 361	AI345695, AW236342, AA704561, RI13151, AI061313, AA745653, AW440976, AW338508, AI633168, AA838140, AA281461, AI246796, AW157005, AI028510, AA134669, AI291124, AI291268, AI537030, AA992126, AI302994, T07287, T16427, AA182569, AA772016, AI354243, AA262139, AA570632, AA179752, AA100540, AI473851, AW105737, AA284184, AA189069, W47444, T75029, F37052, AA657835, AI341548, F23327, AI088717, AW380074, AA747889, AA743811, AL135405, AI051037, AA528725, F19012, AC006480, AC005531, AL021977, AC005280, AC005102, AL021154, AC005046, AC005839, AL132777, AC005523, AC004099, AL031577, AL096791, AF205588, AC002059, AL109984, AC004953, AC006132, AC016027, AC005821, AF038458, AL121655, AC004447, AC004638, AF196970, AL023553, AC016830, AL049743, AC004019, AC005785, AL031597, AL049869, AC005015, AC006441, AC005412, AC004750, AC007193, AC007666, AL022336, Z84487, AF196779, AF109907, AC000070, AC006211, AL035249, AC005225, Z98036, AC005081, AL031311, AL022311, AL008723, AC005519, I44140, AC004134, AC007878, AC000052, AC007055, AF207550, AL021397,

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HCUGH79	9199	775206	1 - 265	15 - 279	AC005082, U91326, AL121652, AC002544, AC007546, AL049576, AP000207, AP000129, AF111168, and AC002527.
HCUGH64	9200	746600	1 - 198	15 - 212	AA287351, AA501902, AI669116, AI085242, AC004596, Z84484, AC004257, AC004876, AC007263, AC008134, AC005756, AC004598, AL023553, AC013256, AL008730, AC002312, AP000499, Z98044, Z93023, AC002470, Z98884, AC006285, AF205588, AL031589, AL132987, AL049540, AC004963, AC005041, AL022316, AC007845, AC016025, AC006539, AB026898, AC004938, AC005323, AC005565, AC006487, AC004087, AL121655, AC016026, AL034549, AC005231, AC006511, AL031733, AD000812, U65487, AC004922, AC002126, AC002352, AC005015, AL022722, M23282, and AC006064.
HCUGH52	9201	726052	1 - 268	15 - 282	H85104.
HCUGH44	9202	716624	1 - 46	15 - 60	AL121385, AW118338, AL039145, AW089101, AW263724, AI474221, AL135357, AW087356, AA303007, AA504818, AA774222, AA761028, AI124610, T60156, H04977, AL040653, R95139, AI630176, AA847952, AL046519, AI476089, N73872, AA843628, AA457425, AA834665, R34062, AI333016, AL038072, AF112484, AP000276, AP000275, AP000105, AP000037,

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HCUGH42	9203	713782	1 - 304	15 - 318	AA084609, AA489390, AI801563, N27340, AI049999, AI061313, AA502991, N38991, AA199578, AI267356, AI267450, AA693484, AA778580, AI590404, AI749823, AA846923, AI285651, N27737, AA679794, H62123, AI355246, AA570740, AA483606, AI678468, AC005071, AC007686, AC004851, AF207550, AC000025, AL049694, AC004024, AL021707, AL031255, AL022336, AC005736, AC006125, AC004408, AC002477, AC006211, AC002126, AL035422, AC005519, AC005911, AC004099, AC005081, AC007201, AL049766, U78027, Z93783, AC006441, AC006450, AL109984, AC020663, AL021453, AC004531, AP000553, AC005253, AC004098, AC005527, AC002565, AC005013, AC007687, AL031291, AL033527, AP000558, AC005839, AL049795, U91326, AC006050, AC007842, AC006449, AC005779, AC004962, AC005594, AC005207, AC005280, AC000353, AC016830, AC004686, AC009247,

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HCUGD30	9204	850041	1 - 450	15 - 464	AA243882, AA243875, AA604094, T96337, and T93503.
HCUGC25	9205	464029	1 - 431	15 - 445	F33795, N44137, H57810, AI143242, W79504, AA720702, AI262909, AI364020, AI937850, AI537955, T06828, R97780, AA720758, AA578997, AA347368, AW088058, AI434695, AI364809, AA862173, AA661948, AA665021, AW276435, F03525, AI282336, AI357551, AI446464, F10924, F16274, F18638, AI053790, AA665330, AA405453, T40077, AA502720, AA837740, AA626404, N64279, AA744031, AF150152, AW276586, AI623898, AI266133, AA503119, AI038705, W47183, AA340747, AI583594, AW008317, AA773733, R94721, AA338486, AA367986, AI300167, AW406447, AI798266, AI138265, AI357288, AA649642, AA513972, AI281903, AI133164, AI284640, AW072923, AI048925, AA483731, AA973803, AW419262, AA330575, AI270248, AW021583, AA451612, AA583955, AA441788, AA856848, F17891, AW250970, AA579736, AA079101, AI921541, AI697208, AA350859, AA610491, AA729721, AI281881, AA599920, AW193432, AI924251, AW193265, AI064864, AI688846, AA480772, AI471481, AA548511, AA347034, AA343007, AI061334, AI119984, AA837351, AA551356, AW340844, AA806796, AI499938, AW151727, H95681, AI350211, AA747777, AA568778, AW265393, AI270117, AA825357, AA649705, AA468022, AA664015, N92703, AW072587, AA576336, AA708352, AI344844, AI053672, AA828042, AA584637, AW008450,

AA635105, AA804962, AI002834, AA572975, AA683258, AA189117, AA302963, H93144, AI352078, AI434311, AA781010, AA587256, AI824562, AA702614, AA771811, AA587604, AA719805, AI708009, AA570227, AI191227, AA569387, H96730, T07451, AA714453, AA653957, AA133986, AA126777, AA810370, AW023270, AA565733, AL137954, AA526779, AA829223, AA364429, AA368936, H13757, AA084725, AW303196, AW438643, AW273218, AI301700, AW274349, AA856954, AI917156, AA471084, AA934680, AA908357, AI358343, T06556, AI355206, AA584790, AI003751, AI888365, AA577906, AA668578, AA533725, AI653905, AA446657, N68051, F04478, AA503154, AI358431, AA640900, AI038474, AA523838, AA523837, AW301350, AI044940, AI254338, AI354426, AI219406, AI002820, T41124, H64548, AA804379, AA502866, AI903462, AA469460, AA650450, AA581903, AA352803, AI246119, L47228, AC005157, AL031427, U91326, AC005544, AC003681, AP000010, AJ006345, AC006479, AL080242, AC004925, AC006079, AC002350, AF161343, AC000377, AC000004, AL008725, Z82214, AC002429, AC004075, AC007486, AC002412, AC005060, AL078613, AC004448, AF039590, AC016025, AC004808, AC006023, AC006006, AL096791, AC004890, AC004002, AL110502, AL031229, AC007748, AC004526, U91322, AC006285, AP000080, AC008012, AC007240, AL133500, AC007437, AL022165, AL031431, AL121603, AF017104, AL121852, AC006487, U67827, Z98752, AC002067, AJ246003, AC002289, AC004738, AC002465, AL022329, AL049643, AC005220, AC004916, AL035079, AC003029, AC000118, U18398, AL078621, AC009516, AF027390, AC006966, AC006207, AC005703, AC004522, AL022320, AC005191, AL035424, AC006313, AL009174, AC002407, AC005288, AC005243, AF067844, AC007488, AC002563, AC005972, AL121658, AL031054, AC000025, AC004844, AC005527, AC003693, AC005011, D83989, U57009, X54181, X54178, U57005, X54176, I51997, AC004158, X75335, AP000356, Z97635, AC009223, AC008151, AC004895, AC005023, AL022723, AC004933, AC005412, AE000659, AP000855, AL049759, AF111167, AC007406, AC002544, AC005901, AC008268, AL049779, AC002449, Z84469, AL035458, AC002303, AC004865, AL109853, AL022316, AP000160, Z68289, AC002432, AC007510, X54175, AJ251973, AC003670, AC005899, AC006252, AC000085, U04355, AP000553, AF070718, AB000882, AC007559, AC011311, AL008629, AC005007, U73332, AC005071, AC006512, AL009179, AL031965, AP000226, AC005089, AC006486, AC007684, AC005075, AC005015, AJ003147, AC007227, AL008635, AE000658, AC005536, AL033381, U14684, U14685, U14689, AP000557, AC006040, AL022311, AL021878, AC005962, AC005702, AC005670, AC004596, AC005210, U18391, U18392, U57006, U18394, AL050343, X55925, U18393, X54179, AC006130, U18390, X55932, AC006353, AC002420, U67825, AC007735, AC005529, S70707, AC004485, AC004531, AP000959, AC004150, AC006965, AC006210, AJ010770, AC005252, AC005355, AC016026, AL136168, AC004645, AL022336, S56773, AL035071, AF124730, AC006958, AP000087, AC006195, Z93783, AC007845, AC006996, U57007, AL035671, AC004544, AC005209, AL023553, AC004854, AP000038, AP000106,					
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HCUGB93	9206	850043	1 - 434	15 - 448	AC004020.
HCUGB58	9207	736092	1 - 99	15 - 113	AW263724, AI254913, AA478355, AW089101, AL135357, AI791913, AI792133, AI821714, AA219018, AW074913, AA502538, AI445088, AI469577, AA858372, AA493894, W01985, AI866487, AI470646, AA364453, AA526331, AW410354, AW023149, AW081871, AI273012, AI818737, AW084246, W03286, AI559705, AA693688, AI821785, AI751216, AA018823, AA547947, AI343148, AL134988, AI590485, AA846952, AI333016, AI560085, H18354, AI732547, AA953238, H23653, AW384990, AA767412, AL134439, AI969436, AI783581, AI309375, AL119691, AA587604, AA526630, AI859946, AW088846, AI343233, AI382825, AI819140, AA582073, AA714110, AA937427, AL042853, R44116, AL134275, AI696962, AA449997, AI798473, AA468022, AW087356, AA326372, AI452726, N52358, AA584733, AA587509, AW275666, AW265393, U69194, AI025864, AW080811, AI630176, AA781669, AA303007, AW103758, AL039145, AI932599, AI572924, AI002941, AA654781, AF034184, M77933, AA701080, AL030997, AC000090, Z86090, AC007308, AC005874, AF134471, AL035420, AL021918, AC004796, AC004797, AC002470, AC007226, AL121877, AC005829, Z93023, AC004878, AC005209, AC003043, AC005933, AC005057, AC004673, AC000080, U72790, AC004975, AP000505, AP000210, AP000132, Z81369, AP000248, AL079295, AC004985, AC004966, AC004033, AL050341, AL023803, AL008718, AC004686, AC007041, AL049576, AL022165, U52111, AC005500, AP000354, AC005071, AF129756, AL034418, AC002314, AC004895, AC005994, AL049377, L35667, AF135187, AC005612, AL109798, AL035530, AL049844, Z82215, AC009028, AC010206, AC007156, Z97054, AL035067, AL035400, AC007690, AC004900, AL021391, Z83846, AC007686, AC003986, AC007537, AL022721, Z82198, Z99716, AC007056, AC004755, Z97056, AC004646, AC005538, AP001037, AC004024, AC005257, AC003104, AC004232, AC005245, U73636, AF152365, AL022322, AL031657, Z98752, AL022578, Y14768, AL034548, AL021026, Z94721, AC004685, AF038458, AC004865, AC005393, AL022313, AC006254, Z94056, AC002350, AC006581, AC004456, Z99570, AL022336, AJ006996, AC004051, U89335, AL078585, AC007676, AF091544, AC006597, AC005088, AC007199, AC009743, AC002559, Z83844, AL050311, AC005479, AL121595, AC003101, AC007993, AL049301, AP000141, AC002115, AC005412, AC003692, AC003112, Z68323, AL022318, AB023048, AC004605, AD000812, M59199, AC007055, AC005998, AF170813, AP001054, AC005952, AL031055, AL031730, AL035691, AP000390, AC005067, AL049550, AC007242, AL096843, AC005682, AC005411, AC007371, AC005939, AF191069, AC004520, AL021393, AF096876, AL031291, Z84484, AC009247, AC004499, AL031672, U91326, AL024507, AC004000, AC002040, AC005354, AP000088, AL109952,

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HCUGB37	9208	706468	1 - 194	15 - 208	AI274773, AL044966, AA642918, R99617, and AC005822.
HCUGB22	9209	575851	1 - 339	15 - 353	
HCUGB20	9210	669742	1 - 314	15 - 328	AI741850, AA595206, AA720782, AA081138, AA668973, R08918, R09410, AI261358, Z93023, AC004491, AL031255, AC007308, AC005702, AP000502, AC005089, U85195, Z83844, AE000658, AC006441, AC004596, AC005568, AC002310, AC005874, AF134471, AC006254, AL133445, U91323, AC005102, AC005057, AC004837, U91321, Z98044, AC004893, AC004813, AL049830, AP000555, AC004895, AC006449, AF196969, Z84466, AC005412, AC004531, AC011331, AC005031, AL022324, AC004167, AC002470, AC005841, Z98050, AC006013, AC006141, AC004777, AC008040, AB000882, AC007676, AC004686, AF049895, Z82195, AP000501, AC000353, U95739, U80017, AC007298, AL109758, AC006252, AL132992, AC006285, AC004031, AL034548, AF111167, AC005330, AC007786, AL049569, AL009181, AL031447, Z47046, AC005231, AC004638, AB026898, AC005071, AC000026, AL049795, AC004242, AC005921, AC005081, AL096791, AC007546, AC002551, AC005678, AF053356, AF031078, AL021578, AL031589, AC004087, AF196779, AC005086, AC003684, AC006238, AL132712, AC002472, AD000091, AF030876, AC005971, Z95115, U47924, AC006277, AL033392, Z85986, AP000355, AP001067, AC006480, AC004882, AC004927, AF129756, AC007664, AL023553, AC006071, AP000116, AP000049, AC006084, AC002059, AC003077, AL031283, AC006537, AL031775, AL049761, AF111168, Y10196, AC005072, AC004963, AP000493, AC004526, AC004612, AL031289, AP000311, AC007216, AL031003, AL049570, AC005696, and AC005049.
HCUGB14	9211	854035	1 - 363	15 - 377	AI251002, AI205126, AA515435, AA886584, H64777, AW243698, AW088202, AI929531, T08438, AI358571, AI446464, AW029038, AA634146, AA348929, AW162049, AI038785, F36273, AI962050, AW166815, AA229785, AA729721, AI133636, AA826303, AI339850, AI904894, AI567674, AA713815, AI917271, AI469003, AI625244, AA669416, AI890923, AI281881, AL046409, AI679782, AW440836, AL120674, F17761, C05755, AI608626, AA483068, AA350859, AI064864, AW276827, AA347368, AL119391, C06327, AI754955, AI083946, U51696, AI866956, AI083998, AI309740, AI081095, AF150152, AI918421, AA719080,

					<p>AA828704, AA644207, AA837084, AI357796, AI281697, AA657533, AW161752, AW162570, AI608966, W79504, AI744827, R91159, T06828, AI279873, S75337, Z98754, U14698, U14695, U14705, U14700, U14685, U14686, U14699, U14710, U14707, U14702, M87916, U14701, U14691, U14704, U14684, U14688, U14689, Z73986, AP000115, U14690, AC004383, AC006511, AL009051, AC007056, AF064865, AC002563, AC010722, AF053356, AC005037, AC006130, U14694, AL132718, AC005412, AC005914, AC009731, AC002067, AC005661, AC008585, AC005332, AC004542, AL031846, AC004921, AC002477, AC004638, AB019438, AP000473, AL132712, AC000052, AL049830, AC005081, AC002059, AL022395, AC006352, AC007917, Z99758, AC004019, AL049709, AF107258, AC004506, AP000045, A39972, AC007284, AC005821, Z98255, U66059, AL035089, AC007666, AF111168, AP000553, AC005913, AC006374, AC005999, AL050305, AL121748, AP001053, AP000497, AC010197, AF196779, AF064857, AC005084, AC007617, AC004890, AL031054, AC006449, AC006315, AL049835, U47924, AC007542, U12580, AP000047, AC005066, AC005837, AC003088, AF015169, AF015167, AF015166, AL050348, AF015162, AF015158, AF015170, U12583, AP000275, AC006285, AF015156, U12584, U12582, AL049775, AF050154, AC003101, AL035415, AP000037, AP000105, and AC005324.</p>
HCUFY79	9212	494008	1 - 551	15 - 565	<p>H47368, AW028376, AI468993, AW243945, AI921744, AI221027, AI567676, AA365049, T03613, AW273201, AW273146, AI002863, AI572680, AA657834, AW243817, AI885134, AW407007, AI370470, AA557945, H86399, AI312614, AA125758, AI308529, AA873661, AI274006, AA230221, AA362440, H47461, AA569220, AI884404, AI889177, AI567831, AA778580, AI031759, AA947352, AI003086, AA421536, AI434103, AI445768, AA640563, AA586553, AA749196, AA353081, AI281622, AI708108, AL044966, F26395, AI802268, N35135, AI376687, T06339, AI538404, R79396, AI889648, AI613487, AA935827, AI279693, AA832108, AI336206, AA364082, AW029574, AI921692, AA774119, AW337483, AA578711, AI745666, H53109, AI734076, AA657808, AI640905, AI732102, AI732101, N23099, AA664924, AA772818, AI734075, AA587835, R06030, AI567391, F32823, AA368329, AI054090, AA648605, R64110, AI571094, AI298021, AL036536, AA599532, AA015948, AW089524, AW029626, AA297789, AA809546, H49253, AI683120, AI888050, AI251024, AI559720, AA847341, AI254770, AI284543, AA936099, AA593168, AA991640, AA351893, AI307563, R67038, AA829003, AA507990, AA219166, AI732911, H91672, F25759, AA584360, AI816058, AA385094, AI150934, AA662614, AA525156, H51612, N49298, AA353957, AA230024, AA339932, AW151523, H83899, AW020682, AA600863, AA975894, AA768179, AA610644, AA835702, AI570067, AI249853, AL038533, T16147, AI760850, AA112864, AI167715, AI065031, AI246061, AI668566, AA225566, AA225494, AA362439, F31811, AA196287, AA078754, AA368659, AA513916, AA467740, AA832104, AL049843, AB033024, Z82198, AL133448, AC006241, AL050307, AC004749, AD000092, AC004130, AL109847, AL031680, AC002991, AL022146, AC007421, AC005015, Z69364, AC005694, AC004753, AC005574, AC005566,</p>

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HCUFW11	9213	850054	1 - 495	15 - 509	H90851, H90192, R10716, AA493603, N63093, R92937, AA714012, AA069926, H58474, AA745570, AA653323, T47274, AA598964, AA653202, AI732164, AI821721, AA214346, AW265139, AA669434, AW069667, AA846890, AI452778, R84431, AW068977, H29460, AI281475, M63796, AL078476, AL117355, AC004526, AC004491, AC004841, AC005800, AC005015, AF030876, AC004923, AC004477, AC005912, AC002551, AL035685, AC004685, AC007226, AF190465, AF031078, AC004217, AC006257, AL035419, AP000210, AP000132, AP000696, U66083, Z99916, AL034417, AC004929, Z98742, AF010238, AC005736, AC004598, AL121657, AC005102, AC002456, AC004257, AL033392, AL034343, Z84467, AC003102, AL031680, AC006101, AC005046, AL096803, AC010206, AL031686, Y13537, AC005081, AC004197, Z85987, AL031311, AC003670, Z95116, AC005768, AC004884, AL023284, AC002378, AC002300, AC007192, Z49918, AP000248, AC004814, AJ246003, Z47046,

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HCUFW09	9214	625658	1 - 188	15 - 202		T92360, and AC005071.
HCUFT37	9215	706467	1 - 419	15 - 433		AW445217, AA022880, AI928545, AW027901, AI290104, AI830526, AI820978, AW152451, AA015749, AA226104, AA226109, AW301855, T58513, AA506744, R99597, W32993, AW151870, T34558, AA487829, AI567676, AA757646, AI581006, T48770, AI174701, AI791408, AI791720, AW162762, AA354695, F35789, AI500315, T69899, AA653291, AA551030, T47138, AW262716, AW167202, AA847341, AA668421, AI884404, H37892, AA354677, AI821945, AI282330, AW148821, AI251024, AA809104, AI018726, N70293, AA300049, AI445699, R10144, AA147521, AL047405, AI702049, AI002952, AW265468, N78600, AA078225, AL138262, AW192930, AA757406, AL121039, AA621720, AW157128, AI918661, AA494047, AW410844, N53448, AA180857, H77666, AI064968, AI760850, AW162314, AL038533, AW162332, AI049999, M77964, C15811, AI538404, AA225519, AI744890, AA172103, AA349923, AA362440, AW407007, AA524846, R93823, AW262946, T59738, F09745, AW157173, AI459879, T59624, AW274180, AL031577, AC005280, Z82193, AC005203, AC006111, AL022476, AC004150, AC004383, AF124523, AF118808, AC004051, A65971, L81868, AC000094, AC000085, AC005877, AC006974, AC005058, AL022331, AP000280, AC004816, AP000107, AC007041, AL008719, AC006146, AC005534, Z98036, AC007738, AL031295, Z94056, AC002420, AL021918, AC002997, AD001502, AL035455, AE000660, AL109982, AC007367, Z94865, AF007876, AC005225, AC007421, AL022315, AC005746, AL049569, AL020997, AC007030, AC004671, Z98946, AL031602, AC004007, AF196972, AC005670, AC005411, AC006121, AC005839, Z85987, AC004771, AC004797, AL032821, AC005231, AB017602, AC006130, AP000503, AC005089, AF134726, AC007298, Z69375, AL031321, U73634, AP000967, AF064861, AC004966, AL133163, AF107885, AL049776, AC002984, AF124730, AF111167, AC002350, AP000349, AC005005, AC002472, AP000350, AC007664, AC009248, AC007686, AL022238, AL035681, AC008072, AC005179, Z98048, AC005519, AP001053, AC007058, U45945, AC006261, M81181, AC005752, AC004920, Z95115, AF047825, AL133445, AC007016, AI246003, X69907, Z73979, AC004814, AC005300, AL049766, AC006946, AC007225, AF001550, AC006581, AP000300, M60806, AF165926, AP000693, AC000115, AC005320, AC002401, AL034429, L78833, AC005878, AC005821, U51561, AC004686, AC005354, AC004753, AC005239, U62317, AL121658, AL117258, AC002449, AL022165, AC004648, AC005159, AL049709, AL096801, AC005695, AP000045, AP000113, AC002045, AL022396, Z73360, AC004475, AP000558, AC002551, AL031683, AF200465, AC006367, AC004812, AP000557, AC002395, AC009516, AL137442, AC005531, AL132992, AF045555, Z61071, AL031659, Z92542, AC005324, AC007685, AL009179, AC020663, AC006006, AL020993, AC005049, AP000952, AC002477, Z68284, U07562, AC003030, AC004409, AC005808, AC004079, AC004685, AC003093, and AC004841.

HCUFQ08	9216	959567	1 - 444	15 - 458	AA555097.
HCUFP11	9217	967155	1 - 361	15 - 375	AL037324, and W87497.
HCUFO96	9218	796434	1 - 383	15 - 397	<p>AW302013, AL046409, AI610159, AL138265, AI284640, AI963720, AI568678, AI334443, AW169537, AI754955, AA623002, AW193265, AI431303, AW276827, AI350211, AW438643, AI904894, AI345654, AI085719, AI110770, AI613280, AA610491, AA469451, AL046205, AI270117, AI432270, AI305766, AW419262, AI289067, AW276435, AL037683, AI340453, AI688846, AL138455, AI859742, AW072587, AI708009, AA577906, AI471481, AW338500, AI341664, AW193432, AI499503, AI053672, AI951889, AL042420, AI801591, AI434695, AL048925, AA581903, AI312309, AL137954, AI379719, AI951928, AW238278, AI287528, AI590958, AW088846, AI754658, AW406755, AI619997, AI865905, AA758934, AI375710, AI559705, AI061334, AI814735, AL040382, AI590689, AA857486, AA977743, AI358343, AI580652, AA916371, AA780515, AI969436, AI246119, AI064864, AI890570, AI890928, AI345518, AA490183, AA491814, AW085794, AI143242, AI559251, AI298710, AA587256, AA679672, H70615, AI564496, AA569471, AW148792, AA523688, AI446464, AI467919, AA488395, AI669453, AI344844, AI357288, AI473943, AI472222, AI674873, AI801600, AI365988, AI305547, AI358571, AI345157, AI249997, AI798473, AA872067, AI692808, AI355224, AA178953, AA192740, AA680243, AI589461, AL079645, AA084070, AI928898, AW406162, AA630030, AW008952, F32808, AI044858, AI358229, AA350859, AW067900, AI282832, AW410400, AI625647, AI091495, AI281697, AL044940, AI955323, AI017024, AI653886, AI038833, AA632624, AA302648, AI357551, AI307201, F29989, AA610493, AL120269, AA621858, AA877817, AL041706, AI499054, AA669840, AA569284, AI371070, AL138421, AL049871, AC002492, U66059, AL031257, I51997, U18396, AF077058, D83989, AF015149, AF009660, A39972, U18391, U18398, AC005330, X55925, AC005015, X54175, AC009516, U18394, U57009, U18395, AC004893, AC005161, AP000552, AC002467, AC005899, AC006160, X54181, AC004675, AL031295, AF015156, AC006544, AF088219, AC005703, AC005881, AL049643, AC004019, AC004382, X55926, AC007216, X55923, AC005837, U18393, AC002310, AL008715, X54178, Z98884, AF015151, AC000052, X54180, AL033397, AL050321, AC000072, AC005071, AC005696, X76629, Z49816, AF067844, X75335, AC004448, AC002527, U57005, U57008, AF205588, AC005598, AC004388, AC004992, AC004554, AC006079, AC002347, X55932, U18392, X54176, AL031774, AC006576, AC004596, AF134726, AC002558, AC004030, U57006, AL022329, AC004673, AC005839, AC016830, AC006543, U95742, U18399, AL031577, AC007774, AC005251, AC005808, X53550, U57004, AC002564, U18390, AC004970, AL008627, AL049562, L77569, AC005066, Z99129, AF015148, AL133396, AL049856, U57007, AC006480, AP000503, U47924, AC000353, AC006205, AL035448, AC005011, AC005250, AF015147, AL049647, AC003002, AC006989, AC004808, AC004933, AF085444, AF015157, AP000127, AP000205, U85195, L81648, AC007688, U18387, AC005295, M37551, AF015150, AC008009, AC006509, AL023882, AC002094, AE000658, U02531, AC005531, AC004028,</p>

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HCUF093	9219	792376	1 - 348	15 - 362	AA501508, AI914747, AI223948, H50970, AW021083, AI345780, AI174876, AA516164, AA230251, AI369580, N77109, AA835854, AC002472, AC003982, U96629, AC007664, AC004967, U91323, AC006547, AC002054, AC005274, AC004099, AC008018, AC007546, AP000553, AC003101, Z98884, AP001051, AF053356, AL020997, AC006141, AC005821, AF095901, Z98743, AC004590, AC005225, AL022336, AC004876, AC005952, AC004671, AC005659, AC004895, AL035071, AC004382, AC000097, AC005105, AC004882, AC005972, AF196969, Z95115, AC004707, AC007225, AC000353, Z95331, AC007036, AC002551, AC004887, AL139054, AL035685, AC006536, AL035455, Z77249, AF121781, AL049872, Z97054, AC005800, AC005295, AC005015, AC005899, AL022320, AC004985, AL049540, AC005414, AC005971, Z83822, Z93023, AC016026, AC004787, AC005822, AC005912, AF001549, AC004685, AF086284, AC004963, AC005488, AC004966, Z85986, AC005529, AC002365, AC006057, AC002511, AC005902, AL023807, AC005932, AL034420, AL031230, AC004983, AC005037, AC005914, AC005520, AC005231, AC006088, AC004253, AC006084, AC007565, AC005531, AC004491, AC005387, AL049569, AC007216, AC005756, AC002302, AC007938, AC004841, AC002352, AC005089, AC005193, AL133445, AC003109, AL031657, AC005874, AF134471, AL021154, U91321, U91318, AF227510, AL049709, AL096791, AC000159, Z84466, Z95113, AC005049, AC005740, AC004031, AC007055, AC003003, AF111168, AC006026, AL109984, AC002126, AC012083, AC004453, AL049874, AC005486, AC005764, AC004383, AP000555, AF196779, AC004883, AP000499, AC006538, AC005622, and AL009181.
HCUF068	9220	753083	1 - 358	15 - 372	AI570261, AA491814, AI963720, AW088202, AI568678, AW029038, AW438643, AL138265, AA482711, AI962050, AW193265, AI679782, AW303196, AW274349, AI284640, AI610159, AI350211, AI431303, AW301350, AA806796, AA652764, AI358229, AL046409, AI613280,

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HCUFO43	9221	715337	1 - 229	15 - 243	<p>AC007225, AC004592, Z22650, AC005332, AC007298, Z84470, AF190465, AC005378, AC005379, Z83846, Z93023, AC005039, AP000359, Z93241, AL031054, AL031431, AC004385, AC006277, AC004953, AC005291, AC006006, AC007666, AL031774, AF015171, AL031387, Z98941, AC008372, AF015168, AP000402, U75931, AL121655, AC005046, Z84476, AL031257, U67221, AC006581, AC005484, AF015161, AC002425, AC000004, AC004453, AC006019, AL049757, AC008126, U02531, AL133233, Z82976, AL121653, AP000548, AL023494, AP000500, AL121748, AL022322, AP000358, L35531, AL008728, AC004814, AP000501, AC004987, AC004016, AC007358, X54176, U18400, AL031737, AC005399, AL050097, AC004963, AL080242, AC006305, AL034423, AC007676, AC003046, AL035458, AL022315, AP000966, AL121652, Z97054, AL035072, AC005839, AC004991, AL031289, AC004531, AC000159, AC006045, AC004675, AL121603, AC007387, AD000092, AL035684, AL135744, AP000311, AC004797, AC007262, AC005529, AC003043, AL096771, AP000468, AC016027, AC006160, AL049845, AP000553, AC004637, AC010197, AC003664, AC005209, AP000275, S56773, AC005212, AL049643, AC004940, AC016831, AP000141, AP000090, AF088219, U47924, AP000962, AC003986, AC006312, AC001163, AP000105, AP000037, AP000206, AP000128, AL049766, AL033397, AC004890, AC003075, AC005923, AL033392, AC006241, and AC002377.</p> <p>AA661921, AA613591, AA063173, AI270117, AW193265, AI583283, AI431303, AA527630, AA689526, AW274346, AA584167, AI350211, AW438643, AA828227, AW406755, AI634384, AI345157, AI370094, AI284640, AA490183, AI613280, AL044940, AA503600, AI370074, AA559290, AI358229, AI345654, R98359, T94842, AW023990, AI860013, AW083402, AW303196, AW083364, AW274349, AI754658, AA826303, AI305766, AL119691, AA326372, AW301350, AA847409, AA468244, AA812281, AA613397, AL046409, AA634889, AA482711, AA653375, AW021207, AA658362, AA483223, AA577906, AI688846, AW264934, T40452, AI494203, AI962050, AA493708, AW419262, AA599920, AW193432, AW088202, AW069769, AA601433, AI619997, AA630925, AA551503, AI918421, AA083046, AA855101, AI687343, W45625, AA580808, AI625244, AA847499, AW196064, AW302013, AI698447, AI744995, AA581903, AA584805, AA661814, AA492081, AA603185, AI754955, T51911, AA992351, AI696962, AA467820, AL041690, AI358431, AA502860, AI289067, AW263477, AA782304, AA548586, AW302903, AW050498, AI241821, AA169263, T41259, AI459768, AA664015, AA719805, AI054352, D52587, AA834667, AA569471, AA574442, AW408047, AA938105, AL038705, AA501762, AI932493, F34498, AI814735, AA613227, AW021583, AA623002, AI282511, AL036037, AI054343, N53150, AI084294, AW261871, AA834755, AA494097, AA602047, AI866160, AW149156, AA491831, AI375710, AL038785, T40308, AL079511, AW273218, AA525824, AA584201, AL046205, AI886432, AA737318, AA848134, AI963720, AA618452, AA548689, AA857486, AI251002, AW265385, AA838190, AI338350, AL037683, R40056, AA309530, AA483771, AA491862, AA578861, H40936, F08473, AA610688, AA613203,</p>
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HCUF036	9222	575850	1 - 441	15 - 455	
HCUF024	9223	677273	1 - 452	15 - 466	AA306060.
HCUF011	9224	967156	1 - 453	15 - 467	AI267858, AI267573, AI267490, AI267216, AI267669, and AC005332.
HCUFN78	9225	773620	1 - 363	15 - 377	AA42883, AW204253, N95221, N95171, AW340237, AI222434, AI812038, R31121, AA618508, AI983344, AI143805, AA879440, AI250910, AI654496, R31082, R48546, R41487, AI659922, AI698459, T98808, R79982, AA909113, R25153, H67267, R07369, R76503, R83351, R77383, H54440, R27769, H21958, and H62374.
HCUFM35	9226	706461	1 - 400	15 - 414	T52610, AA283902, and AA703521.
HCUF140	9227	711242	1 - 389	15 - 403	AI538438, AA086258, AI383110, and AA112018.
HCUFK35	9228	706460	1 - 1041	15 - 1055	AA190564, AI802383, AA193673, T54701, H60718, T54617, AL033527, AC005015, AC004554, AF196969, Z98200, AL080243, Z98941, AC003102, AL034379, AL009181, AC005513, AC005102, AC004889, AP000047, AF067844, AC004526, AC002378, AC002477, Z81364, AC005529, AC005523, AP000365, AL021407, U91318, AC005081, AC004216, AC009405, AP000115, AL096791, U95739, AC005755, AL121603, Y18000, AC006487, AP0000696, AC004841, AC004983, AC005994, AC005291, AC004685, AL096773, AC005592, AC004975, AC006312, AC004832, AL023096, AL031666, AL034417, AL023284, AL080241, AC007425, AC006449, AP000502, AF053356, AF001550, AC003950, AL031681, AL0355685, AL035422, AL049744, AL021154, and AC002302.
HCUFK09	9229	961145	1 - 424	15 - 438	AA584134, AA583892, and AC006276.
HCUFJ08	9230	850074	1 - 206	15 - 220	AA156314.
HCUF150	9231	974472	1 - 411	15 - 425	AA095641, AA471338, Z66259, and Z66258.
HCUFF74	9232	765662	1 - 382	15 - 396	AA100176.
HCUFES5	9233	731843	1 - 171	15 - 185	AI359088, AI420695, AI419227, N92325, AA424589, AI246165, AI277557, AI123268, AI122787, N31489, AI160097, and AL031297.
HCUFES4	9234	730745	1 - 300	15 - 314	AA250762.
HCUF70	9235	757280	1 - 629	15 - 643	N73061, R10527, N53696, AI077389, AI032040, and R10119.
HCUES01	9236	916805	1 - 596	15 - 610	AA565210, and AA565209.
HCUEQ12	9237	922556	1 - 435	15 - 449	AA043442, W79487, AA670449, AI801522, AW152284, AW328473, AI270655, AI819023, AI884682, AW071997, AI523995, AI831391, AI827306, AW268528, AW006973, AI625967, AI719530, W79431, AW194190, AA630129, AI709152, AI207503, AW083219, AW235333, AI680026, AI797189, AW275903, AI282238, T30026, AI832628, W79332, AI970208, R14878, AI968008, AI652332, AI631584, T30434, AW196568, F20226, T47161, AW384586, AI867971, AW384680, T23926, AL047696, AW384676, AA632058, AI432606, AA043441, T34452, AW235729, AI674454, AW384658, AW003005, W79631, Z43470, AW384653, W00670, F08757, R21703, H05366, T27643, AA448723, N41797, T80148, AA316541, T32038, N98906, AI371701, H17706, AW409853, AW062715, AA075111, T31757, H23423, T36166, W23945, AW062719,

HCUEP32	9238	586999	1 - 261	15 - 275	<p>F05919, W35174, M62128, N25478, W25399, AF113701, AC005297, and AL110153.</p> <p>AI284640, AL046409, AI431303, AA490183, AI270117, AA521399, AA521323, AW274346, AW193265, AI963720, AA834707, AA584167, AA623002, AI754955, AA610491, AA613203, AW088846, AI583283, AW303196, AA581903, AW274349, AI613280, AA493471, AI281881, AI860013, AL119691, AI350211, AW301350, AW268300, AI345654, AA613227, AL042853, AW419262, AI305766, AL121235, AW270382, AW302903, AI708009, AW327868, AI345157, AA720702, AA469451, AA721056, AL138265, AW028429, AA610688, AA526787, AA587604, AA877817, H56509, AI633390, AW021583, AI610920, AA682912, AI192631, AI625244, AI345681, AI345675, AI732120, H71429, AA832181, AI434695, AI696962, AA219129, AA584145, AA649642, AI536665, AA507824, AA503475, AA719292, AA503473, AW062724, AA665330, AW162049, AA531372, AI929531, AI339850, AI919265, AL038705, AI064864, AW029038, AW304584, AI358571, AI962050, AA468131, AA856969, AA829223, R88888, AA846935, AW249224, AI801482, AA775207, AI754658, AA478355, AA713815, AW088202, AW270270, AA394271, AL037683, AI249997, AI570261, AI611990, AL043719, AA837084, AA522942, AA632837, AI281468, AA548058, AI708125, AI969436, AA679514, AI917271, AA551503, AA577906, AA244357, AI889781, AW083402, AF034184, AW276817, AI798473, AI251436, AI918421, AA525824, AA846876, AA523838, AI567674, AA610493, AW439558, AI168185, AW438853, AW440836, AA771811, AA491814, AW167372, AW261871, AW069769, AI133164, AW276827, AA584195, AA582911, AL044940, AA601222, AA713891, AA482711, AL046205, AW073470, AI744995, AA683258, F27407, AA834792, AI133636, AA649781, AW166815, AA503600, AA523837, AI251002, AI134972, AI749559, AA533303, AA661948, AA662225, AI110760, AA649705, AI473943, AL042420, AI567076, AI688846, AI053672, AI634384, AI471481, AA680243, AI679782, AA491284, AA351056, AW265385, AI890923, AI939465, AA584201, AI499938, AA599920, AW193432, AA584752, AI469003, AA601492, AA634146, F30933, AA580808, AA493206, AI368745, D83989, AF077058, X55929, AF015156, U18391, U18392, U18394, U18395, X55925, X54179, X75335, U57008, U57006, U67801, U04355, X55926, U57009, X54181, X54178, I51997, X55933, AF015147, U67831, X55927, U18396, X54180, X55924, U18387, U18393, U57004, AF015151, X54176, U67832, X54175, X55931, U18398, U18388, U67825, X53550, U57007, U18399, Z22650, U67829, U18390, X55922, X55932, U18400, AF015153, U02532, AF015149, U67211, X54177, AF015167, S43650, S75201, U57005, AF015166, A39972, AF015155, U67233, U67231, M37551, X91841, U67222, X55923, U67226, U67827, L47228, U67217, AL050097, U67229, X88791, Z49816, AC006126, U67225, U18389, AL023882, AF015158, X55930, AC005251, AF015148, Z69666, U02531, U14705, U14695, U14694, AC004686, AF015154, X76629, AF074708, M37547, AC005821, U72787, AC002377, Z78627, AF145473, AC005291, AF141976, U14698, AL022302, AC005412, AL022163, AF088219, U67216, AC004381, S75337, M87919, AC004887, AC007043, AC004626, AF158642, AC004901, AC005694, Z81369, AC008014, AF015162, AC004592, AF000555,</p>
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HCUEO74	9239	576576	1 - 209	15 - 223	<p>U49740, AC004167, U14701, AC007848, AC005019, AC004204, E01888, E02193, U12580, AC005209, AL031722, AC002564, AC005306, AC003080, AR042836, U12582, AB020859, AC006128, AL079295, AL049553, AC004232, AP000088, AC005603, AC006277, AC004987, L81648, AF165142, AF085913, AC004940, AL121591, Z82210, AC005387, AL049647, AF015157, AC004678, AF067122, AC004771, AC000353, AC020663, AC003111, AC005102, Z98051, AF067844, AL008728, AC004650, AL031680, AC006292, AC002347, AC007298, AC005527, AC004933, U14700, AC002300, AC006565, AC005622, AC004205, AC005703, AC005565, AL021940, AC004210, AF090944, AC006022, AC004253, M19045, AC018633, AC005253, AC009227, M22900, AL133396, AL031668, AC005046, AC002430, AF190465, AL136295, AC008372, AC000118, AC006064, Y18000, AC006367, AL133371, AC004016, AL031054, AC004859, AC005919, AP000468, AL031734, AF121781, AL121603, AC006205, Z86061, Z70042, AC004019, Z68192, AP000359, Z98752, AC007384, AL049776, Z99716, AC003085, AL096765, AC008067, AC007099, AC006251, AC004986, AR000118, AC003692, AC005366, AL096861, AC002102, AC007666, AC004883, M96868, AL136297, AC006241, AC004643, AC005288, D87675, AL078604, AC004690, AC005745, AL050308, AC004675, AL133399, AC003980, AL079340, AC005768, AC003691, Z93241, and Z82976.</p> <p>AW263415, AI932493, AI133297, AI445674, AA661921, AA618452, AA279421, AA478355, AA584167, AA634889, AI499588, AA551552, AW270343, T06754, AI953275, AL138455, AW275510, AW117809, AL045808, AL046156, AA368059, AI284640, AL046409, AI334443, AI872020, AW303196, AI270117, AA468244, AW193265, AA477122, AI963720, AA635739, AW301350, AI583283, AI691091, AI345157, AA455670, AL042853, AW274346, AL046266, AA834792, AA658362, AI311927, AA515334, AI241821, AA490183, AA857486, AL042753, AI754658, AI133164, AW301995, AW002350, AW023990, H71429, AI816141, AI873852, AI004704, AL038606, AI471887, F00107, AI247199, AA719292, AA504877, AW084466, AA508359, AI754336, AI292257, AI732547, AI536665, AI350211, AA912099, AW163293, AW069769, AA483223, N58361, AA401240, AA745406, AA679634, AI370074, AW088616, AA908514, AA493695, AA568869, AI110844, AA483929, AI613280, AW083402, AI687343, AW302903, AW303002, AL042420, AI860013, AW235497, AL041690, AL037683, AA533333, AW274349, AL138396, AI307608, AW304584, AI932599, AL119713, AW088846, AA847499, AI345654, AL044940, AI027459, AA702729, AI040342, AA623002, AA019312, AA630672, AI524397, AI039584, AA013124, AI421841, AI696962, AI744826, AI633390, AA610491, AL121235, AL046205, AA453558, AA063173, AI368745, AA333638, AW023149, AI053406, AI561060, AA747070, AI537506, W01230, AI431303, AA192740, AA178953, AL047427, AI686267, AL043009, AA469451, AI369580, AW419262, H42271, AL038966, AA167055, AW168618, AA526787, AA526316, AW118539, AA487888, AA018283, AI925579, AW402237, AW075511, H18354, AI305766, AW021207, AI064952, AI805349, AA708664, AL045053, AI002510, AA083046, AW021735, AI370094, AI929627, AA601355, AA633753, AI084294,</p>
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HCUEO20	9240	669764	1 - 534	15 - 548	N23656.
HCUEM93	9241	792424	1 - 385	15 - 399	T71381, T71249, T89573, and AI129177.
HCUEM15	9242	660450	1 - 356	15 - 370	AA173444.

HCUEL24	9243	677300	1 - 468	15 - 482	H23054, and R54553.
HCUEL07	9244	953587	1 - 548	15 - 562	AI573289, AW295640, T62516, and T62587.
HCUEG27	9245	683541	1 - 532	15 - 546	H62726.
HCUEF38	9246	706450	1 - 280	15 - 294	
HCUED05	9247	932123	1 - 181	15 - 195	AA425283, T94247, C15966, AI754926, AI547110, AW085751, AI523991, R51854, AA063493, AA063419, AI696455, AC005755, AL049694, AL035086, AL049795, AC004526, AL109628, U91324, AC011311, AF088219, AL008734, AF207550, AC004675, AC004098, AP000497, AL021707, AL031668, AC007563, AC005519, AF196779, AC007051, Z93023, AC005082, AL022313, AC006509, AF084517, AC006449, AC005695, AC006511, AL133448, AC006139, AL049776, AC004263, AC004856, Z82198, AP000300, AC004000, AP000501, AC004797, Z97054, AP000359, AL022311, AC006077, AC005779, AP000496, AC003013, AL049757, AB014079, AP000344, AC005822, M63543, AL13321, AP000045, AP000113, AF001549, AC005372, AC004148, AC005067, AC005207, AC006121, AC000353, AL080243, AC004702, AC005899, AL022316, AF217403, AC004072, AC005726, M63544, AC005839, U52112, AC004491, AC006441, AC004805, AB001523, AC007934, AJ003147, AL133244, U62293, AL035420, AP000514, Z97632, Z97056, AC004236, AL022721, AL022322, AL132712, AC004650, AD000092, M89651, AL034379, AC003109, AC004876, Z82215, AC000115, AR004690, L78833, AC005099, AC005225, AC002395, AC004929, AC005668, AC007919, Z94056, AC005261, AL096678, AP000355, AL008582, AC005057, L78810, Z83838, AP000354, AC005624, AC005179, AC004134, AC006211, AL035400, AL050321, AL033392, AL031427, AL096701, AL022302, AC005274, AC002559, AC004841, AL008722, AC007676, AC003065, AC003043, AC002369, AC004884, AL008716, AC005412, AC007371, AC005829, AL020997, AC005003, AL031680, AC005033, AC005251, and AC004167.
HCUDY74	9248	839955	1 - 375	15 - 389	AA501344, AW086257, AI569202, AI267847, W07032, AI510838, AW088202, AA584201, AW406755, AI580652, AI255095, AA344959, AI493546, AA488395, AI358229, AW301818, AI865364, AA551509, N43757, AI547286, AA384502, AL041368, AI205126, AI989742, AW236342, AI433187, AA450199, AL138265, AW023672, AI921649, F29989, AI376100, AI036706, AW361583, AA428414, AI076396, AW074059, AI356904, AI357477, W60516, AI922654, AI564284, AI053429, AA482711, AA916039, AA658235, AI561335, AI610159, AW074398, AA063118, AA828851, AW265294, AI307426, AA826032, AA486680, F28576, AA394271, AI250019, AI365988, AI963786, AW440976, AA557325, AI569086, AI354397, AW339687, AA828680, AA593060, AI284640, AA828696, M78150, AI635272, AA723017, AA626678, AA826144, AI038279, AI016000, AI079910, AI144055, T29360, AA136829, AA515051, AL079645, AI471464, AL042856, AI291124, AI471487, T40286, AI003743, AI291268, AA679266, AA228420, AI537030, AI053816, AI054246, AI431688, F36273, AI453383, AI679782, N27353, AI871825, AW080134, AL040130, AA640900, AW301538, AA654968, AA366035, AF177861, AI648558, AI254649, AI792580, AI345241, AI792510,

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HCUDX89	9249	974483	1 - 571	15 - 585		N88601, AA247827, N84048, N84855, N83168, AA095359, N83992, N83991, N89520, AA096046, AA093224, AA247964, H58760, N88782, AA096066, AA471338, AA095641, N84718, N86694, N83993, N84712, N55698, N88518, N84830, N84829, N87989, N87898, AF039698, U48696, AF103726, S78798, AR066487, AF102850, AF045432, AJ243486, AF032922, and U39066.
HCUDU18	9250	850099	1 - 247	15 - 261		AA167604.
HCUDQ81	9251	902510	1 - 317	15 - 331		AL138265, AL046409, AI284640, AW193265, AI334443, AI963720, AI431303, AI350211, AI754658, AI613280, AI281881, AI133164, AL046205, AI270117, AI345654, AA665330, AI110770, AW327868, AL119691, AA521323, AW303196, AW274349, AW419262, AA720702, AA581903, AL038785, AW410400, AW301350, AI954260, AL041690, AI570261, F36273, AA610491, AA521399, AL042853, AL138455, AA847499, AW021207, AI679782, AL120687, AI537506, AI358571, AL037683, AA394271, AA490183, AA526787, AI254615, AW265385, AA551503, AW029038, AI890918, AI355206, AW162049, AI929531, AA649642, AA584201, AI339850, AL044940, AW088846, AI345518, AA630925, AL040921, AI962050, AA587604, AA491814, AI633390, AW269488, AW023672, AW088202, AI434695, AW088616, AI589230, AI696962, AI149478, AL048925, AI061334, AI053672, AA631507, AW069769, AW238278, AW073470, AA491284, AI471481, AI469968, AA654771, AI289067, AW407578, AI567674, H71429, AI192631, AI610159, AI623720, AW304584, AW276827, AL042420, AW265393, AI610920, AW438643, AA613227, AI368745, AW406755, AI345681, AI345675, AA857486, AI708009, AI890348, AI625244, AI473943, AW439558, AI918421, AA623002, AA482768, AW028392, AI732764, AA826303, AA569471, AA661948, AA533725, AI341664, AW193432, AI358229, AW008952, AA713815, AW028429, AI688846, AW103509, AA877817, AA502103, AW020340, U51696, AL079645, AA682912, AW071196, C06327, AI799642, AI375710, AW080134, AI821271, AA678436, AI904894, AW166815, AL046898, AI307201, AI064864, AI133102, AI919265, AI749559, AW261871, AI005388, AA587256, AI049722, AL044858, AI085719, AW238583, AW083402, C05755, AA468131, N66026, AI619997, AA610493, AA469451, AA493708, AI305766, AL038705, AI801482, AL120674, AL046457, AI251002, AI587583, AI587565, AA908687, AA522942, AW302013, N35896, AI679132, AI687343, AW072923, AA601388, AI365988, AW104748, C75026, C06458, AA747276, AW270270,

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HCUDQ45	9252	881366	1 - 577	15 - 591
HCUDN89	9253	811185	1 - 315	15 - 329

						AI823714, AI807753, AA084901, AA284234, AI312027, AI436666, AW001163, AA372073, AF076931, AF099739, AB016869, and AB019245.
HCUDN82	9254	779978	1 - 429		15 - 443	T63603.
HCUDN71	9255	862116	1 - 381		15 - 395	AA278703, and AW292815.
HCUDK08	9256	959679	1 - 395		15 - 409	AI629017.
HCUDI17	9257	664109	1 - 214		15 - 228	AA578621, AA453558, AJ243486, AC005696, AF196969, AC006211, AC005231, AL022476, AL121603, AC004805, AC004643, AC002996, Z93016, AC005295, AC006126, AC007226, AP000042, AP001069, AP000031, AC005005, ZC004448, AC002302, Z82173, AL022312, AL023882, AC002073, AC005971, AL035423, U57833, and AL050348.
HCUDG26	9258	681985	1 - 419		15 - 433	AA086020.
HCUDD07	9259	935588	1 - 346		15 - 360	AL117375, AL133163, AC006512, AC006241, AC005225, AL050348, AC007240, AC006450, AL034417, Z98200, AL035413, AC005015, AC004973, AC005513, AC004912, AC005519, AC005003, U07563, Z85987, AP001054, AP000343, AC008134, L78810, AC005006, AL109984, AC005697, AC005300, AC004882, AC005399, AL133371, U91321, Z97054, AC006946, AB001523, AC005081, AC006465, and Z84466.
HCUCK58	9260	850117	1 - 253		15 - 267	N78946.
HCUCJ14	9261	659221	1 - 490		15 - 504	W87347, T86628, and AW044560.
HCUCI23	9262	676276	1 - 196		15 - 210	AA021595.
HCUCH29	9263	608615	1 - 680		15 - 694	T03576, AA515915, AI351839, AF196971, AC002425, AC004859, AL096701, AC004216, AC005049, AL034548, Z97054, AC006449, AF001552, AC009516, AC005844, AF196779, AL096774, AL109758, AC002544, AL023807, AC004079, AF111168, AC004999, AC002369, AJ246003, AC006064, AC012384, U47924, AC007021, AC005081, AL022320, AC006120, AL121603, AC006088, Z84469, AC005529, AF045555, M89651, AC005702, AB023048, AF118808, Z83822, AC004882, AC004019, AF111169, AC005082, Z85987, AC007055, AC003043, AC007216, AC002551, AC004491, AC007842, AC004253, U91323, AP000553, AC006430, AC005666, Z97630, Z83844, AC004526, AC004876, Z98742, U95742, AL031733, AL079342, AC007277, AC005399, AL121653, Z85996, AC005619, AL109827, AL022165, AC004150, AL049636, AC004383, AF196972, AP000134, AP000212, AL035086, U95740, AC000052, AC002115, AC005620, AP000501, Z99716, AL121658, AC002477, AC002288, AC007388, AC004222, AF134726, AC005011, AC006512, AL132987, AC005527, AC006344, AB026898, AL133163, AC004890, AP000689, AC005067, and AC004832.
HCUCG40	9264	800153	1 - 141		15 - 155	
HCUCG07	9265	953823	1 - 287		15 - 301	AA807580.
HCUCD83	9266	781346	1 - 411		15 - 425	N29857.
HCUCD05	9267	932333	1 - 363		15 - 377	AA083732, AI968034, AI160994, and AA083733.
HCUBX45	9268	850122	1 - 497		15 - 511	AI014555, AI971212, and AI765152.

HCUBV91	9269	790368	1 - 431	15 - 445	AA055642, AA857295, and AC002433.
HCUBT35	9270	850126	1 - 312	15 - 326	N58798, AI472668, AI520984, AA295874, AA295865, AA496309, AA158240, AA908682, AA610822, AA552989, AI086495, AW247156, W44559, AA372231, AL049869, AL049591, AL109952, Z97053, AL136295, AC005377, AP000500, U91322, AC010205, AC005102, AL031428, AC006536, AP000512, AC008585, AC011456, AL139054, AC005839, L29074, AF205588, AC007676, AB023049, AP000402, AC008040, AL121658, AC005390, AF042089, AL031311, AL033547, AC007510, AC005332, AC002400, AC005179, AF207550, AL035587, AC004134, AL109628, AC004882, AC006115, AC005971, AC007051, AC006952, AC004017, AL021707, AC005305, AC005409, AC007229, L14561, AC005207, AC007055, AL020997, AL078602, and AC005288.
HCUBS07	9271	953861	1 - 386	15 - 400	W86764, AI908342, and AL033518.
HCUBP94	9272	574198	1 - 137	15 - 151	
HCUBP82	9273	526773	1 - 56	15 - 70	
HCUBP48	9274	577289	1 - 397	15 - 411	HP93547, AI307499, and AL022171.
HCUBP34	9275	576462	1 - 370	15 - 384	AA420546, AA524800, AI284640, AI246796, AI733856, AI669589, AW023111, H94979, T05118, AW193265, AW237905, AW440935, AI249365, AI923052, AA525331, AA635433, AW069227, AI610159, AI366555, AA847499, AI624528, AA714110, AA747757, AA502991, AI277373, AI814820, AW328446, AA992126, AA651639, AI284543, T53128, AI270117, AA630854, AI350211, AI754653, AI278440, AW023975, AI003797, AA229005, AL039042, AL039041, AI250552, AI332615, R94909, AA570255, AI251034, AI345497, AI567391, AA632757, AA744018, AI310670, AI285651, AI251284, AI251203, F36273, H79308, AA493808, AW303098, AA311535, AA746911, AW265688, AL031282, AL022326, AP000501, X54176, AL049780, AC004125, D83989, AC007537, AC005932, AF121898, Z22650, AC003070, AC005772, AC005940, AC005368, U57006, U18392, Z83844, X54180, X55926, X55925, D87675, AC003041, AC004651, AB023050, AL020993, I51997, AC005391, U18393, AP000511, U57009, U18391, U18394, U57005, U57007, AL022327, AC006552, Z97054, AL034548, AC005261, AC004815, AC004886, Z84480, AP000553, Z97056, AL139054, AC006088, AC007371, AC003112, U57008, AC006261, AL035398, AL121769, AL121655, U91323, AP000355, AL035697, AL031255, AC004382, AF196969, AC005829, X55931, AC006257, AC008044, AC005071, AL021397, AC004893, AC006121, X54179, AC004985, AL031668, AL031276, AC005519, AL096701, AP001052, AL121657, AL049872, Z93017, AC009516, L78810, AL021918, AC004841, AP000350, AC005280, AL021154, AL022098, AP000089, AC007435, AL035086, AL121653, AC006077, U57004, AC004895, Z97630, AC004522, AC004655, AC006441, AL021453, AB001523, AC002395, AC004033, AP000142, AC000052, AC006511, AC005839, AF047825, L78833, Z84469, AC005859, AP000555, Z98200, AL109801, AL023575, AC007308, AC005747, AC002425, AC004583, AC010170, U67810, AC005257, AC007227, AC002365, AC004634, AL135744, AC003966, AC005288, AC012384, AC005620, AP000569, AL121595, AC005595,

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HCUBP10	9276	961259	1 - 201	15 - 215	AL538236, H99700, AA757426, T62078, T06731, AL041375, AC007842, AC007199, AC005971, AC005529, AL109758, AC000085, Z83844, U47924, AP000689, AC003010, AC010582, AB003151, AC007376, AF111167, AC005899, AF030453, AC005031, AC004999, AL109985, AC005921, AC005081, AC005088, AC007541, AC002072, AC005527, AC002351, AF111169, Y18000, Z98304, AC007227, AC007537, AC005377, AC009275, AC007388, M30688, AC004382, AC007051, U78027, AC007308, AC002470, AC005777, AF205588, AL035422, AC007792, AC020663, AC007057, AL049872, AC002350, AL030996, AL021937, AL050348, Z94802, AF196969, AC005255, AC004033, AP000509, AC004264, AC002073, AC002519, AL121748, AL022327, X54486, AC005027, AC005500, AC006965, AC007384, AC004686, AL022316, AC006441, AC005265, AL031602, AC004217, AC005544, AL049712, AC006486, AC005531, AC005913, AP000067, AC005231, AL031577, D00591, AC008079, AC004865, AC005291, AC006241, AC002554, AL049760, AC004522, AC004706, AC004990, AL034376, AC005625, AE000660, Z86090, U91320, Z75407, Z82244, AC006327, and AC005082.
HCUBO67	9277	526489	1 - 261	15 - 275	AA533534, AA569471, AL434695, AW407578, T60681, AI801482, AA760839, AW408047, AA630672, AA502991, AI932599, F11718, AA224889, AW328202, AL048925, AI143051, F00564, AW270258, AW002350, AA829166, AC008115, AC005666, AC005800, AP000212, AP000134, AP000251, L44140, AF001548, AP000030, U95742, AL049872, AC007216, AC002312, Z68870, AC006042, AC005839, AC005231, AC002430, AC004517, AC007421, AC002306, AC007384, AP000047, AC005482, AC005520, AC005632, AC016025, AL096767, AF053356, AC005808, AC003665, U63721, AL022316, Z94056, AC005921, AL035685, AC005288, AC006275, AL135744, AL031282, AC005057, Z97053, AC001226, AC005562, AC004967, AP000115, AC004878, AP000553, AC007934, AC004216, Z54334, AL049539, Z98742, AL096763, AL109798, AL021155, AL035659, AL137100, AC005387, AP000152, AC005667, AL035400, AC004813, AC005886, AP000252, AC005005, AC004596, AC004685, AF196779, AC004458, AC002300, U91323, AC004707, AL022302, AC006254, AC006285,

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HCUBM73	9278	577294	1 - 442	15 - 456	N33622, A1658817, and A1818024.
HCUBM49	9279	722190	1 - 638	15 - 652	W86247, W86303, and H70314.
HCUBL10	9280	968223	1 - 455	15 - 469	AI479068, F07564, H74309, H00154, N74027, AW084004, AA351808, N80390, D51809, AI473549, N47820, AA015948, AA454504, AA827383, AI699049, AL037006, AI004740, AA721998, AA757758, AA713735, AW151761, H83136, AI804519, AI902426, AL138065, AW193523, AA845825, T46997, AI745335, AA658179, H28464, H43183, AA385775, AA768179, N56933, C14599, AW029565, AW019964, AA736713, AI860535, AI476460, AI143653, AI954464, AA662614, AI811319, AI039089, AA662989, AA326014, H47736, AA372231, H27788, AA652771, C14880, AA434346, AI357815, AI928890, AA482323, AI018726, H90845, AA427808, AA357979, AA653291, AI040273, AA297496, T03928, AA862029, AA126271, AA525407, T03401, AA831801, AI246061, D44998, N70027, AA832016, N75708, M78131, AI889426, AI819391, AA513884, AA340035, H77442, AI123398, AA371410, AA506952, T69899, AA741301, AA678616, AI131261, AA569220, AI583801, AA515351, AI683019, AA595656, R87135, AA218874, AA084950, AI798242, AI254781, T60940, AI219606, AI739125, AW069273, AI871691, AA665304, AA774006, AI207476, AA083681, AI088903, AA368201, N20034, AA636102, AA083839, AA847570, AA077796, AA533660, AA515172, T40550, AL039930, AA483043, AI829480, AA714073, AA744095, H61201, AW073498, AL118912, AI929410, AI753672, AW068580, AA827281, AA384911, T39390, AP000692, AL096701, Z94721, AC006332, AC000353, AC003026, U62293, AC005263, AL133245, Z83826, AL031597,

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HCUBJ45	9281	723364	1 - 385	15 - 399	R94226, H60821, F27393, and AW182343.
HCUBG69	9282	757752	1 - 243	15 - 257	AI357974, AA746939, AA564682, AA804862, AW268314, AI732171, AA564510, AI032114, AA583390, Z73359, AC005837, AC006449, AC000025, AC005722, AC009516, AF196969, AL035086, AC005844, AC005527, AC002425, AL096701, AC007226, AC004520, AC009247, AC007546, AC007731, AP000556, AC005500, AC005632, AC007676, AC004967, Z95115, AC004067, AC005231, AC005280, AF001552, AC005015, AC006026, AP000557, AC002470, AI034417, U95742, AL031311, AC006064, AC002551, AC004883, AC007386, AC005332, AC005529, AP000501, AF111168, AC007216, AL049766, AC004491, U96629, Z82190, Z93930, AC005412, AC005399, Z83840, Z98051, Z98200, AC002070, AC005839, AC004815, AC004672,

HCUBG43	9283	576468	1 - 369	15 - 383	AC005049, AC002477, Z98742, U52112, AC004560, AC007263, U91323, U91321, AC004966, AC004033, AC002094, AL021155, AC006088, AL034343, AL121595, AC007388, AC006014, Z97054, AP000553, AP000689, AC004002, AC005535, AC009542, AC006241, AL049692, AL050312, AC007065, AL096791, AC005793, U47924, AC007842, AC002565, AC009330, AC016027, AL031447, AC004685, AB023048, AL034555, AC002351, AC005183, AC005841, AC004408, AC016830, AF053356, AL022165, Z99943, AL035587, AL021391, Z98941, AC005911, AC007199, AC006571, AP000512, AC002395, AC005387, AP000215, Z84480, AL109628, AC006443, AC004686, AC010205, AD001527, AL121652, AC004554, AL121825, AC005520, AC005086, AL031291, AC020663, AC005409, AC005899, AL034548, AC006468, AC004477, AC003982, AB003151, Z93784, AL133448, AC005488, AL109865, AC006538, AC006077, U91318, AC002116, Z95116, AC003101, AL031427, AL008582, AC005740, AL049697, AL035420, AP000251, AC006312, AC005005, AL031848, AL109839, AC008101, AC002369, AC007999, AC004167, AC005800, AC005102, AL121658, AC004938, AC004079, AF196779, AC005726, Z83819, U85195, AP000704, AF001549, AC002350, AP000102, AC003070, AL009181, AC005295, AC005531, AL033392, Z85986, AC005089, and AF200465.
HCUBE89	9284	785987	1 - 525	15 - 539	AC005264, AC005899, AL079342, AC005089, AC004383, AL022336, and Z85987.
HCUBE49	9285	723175	1 - 196	15 - 210	AI540121, AA243711, and AA233056.
HCUBE22	9286	409828	1 - 714	15 - 728	T58148, and AW059603. R10475, AA682937, AA601674, R31425, AA689285, AI783581, AW190781, R06346, AA922351, R10346, AA507745, AI567833, AW008089, AI345366, AI310873, AI189682, F31380, AW082559, T39596, AA654661, AW410354, AW250983, AA664942, AI270019, AL041894, AI696854, AA843779, AW103406, N22037, AA658327, AL135262, F18721, AI468971, AI050050, AA527602, AW404225, AA444166, AW302048, AI910608, H68563, AA837642, AA728812, AA583381, AA484639, AI114827, T62614, AI590906, AI335995, H58883, H17602, AA631480, AI630176, AA912287, AA708108, T11828, AI253376, F18553, AA633762, AA594072, AI206841, AI909130, AI216990, AI537356, AA847121, AA565585, AI591375, AI801479, AW020992, AI682665, AI954125, AA582463, AA832175, AA862243, AA527727, AI800180, AA351003, AA985243, AA601356, AI858691, AI580250, AA504694, AW168420, AW188662, AA427470, AL109801, U47924, AL049694, Z68323, AC006112, AC007066, AC005067, AC006512, Z99497, AL034548, AP000300, I56088, AF141308, U89337, AL022163, AL035462, AC004222, AP000146, AC007546, AC005399, AC005933, AL008732, AL021878, AC003071, AC004526, AC003095, AC006511, AJ009610, AL121657, AP001060, AC004690, AL031672, AC004884, AC006312, AP000113, AP000045, AC003049, AC007666, AC002563, AC008134, AL096791, Z69705, AC004754, AP000246, AL117352, AC007277, AC004106, AC005839, AL049765, AC007421, AP000208, AP000130, AF050154, AL031848, AF207550, AC006946, AC005796, Z84480, AL031433, AL031584, AC005725, AL035698, AC007227, AC009247, AC002527, AL080243, Z81450, AP000247, AL079342, AC004652, AC006947,

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HCUBB68	9287	752247	1 - 596	15 - 610	N73144, N53783, H78605, AA354792, AA114131, AA642051, R91175, H78687, N94134, AA179974, AA131083, AF155118, AC007731, AC005500, AC007536, Z97192, AC004526, AC006064, AC004702, Z82179, AC011592, AC007276, AC005284, and AC002064.
HCUBA93	9288	792515	1 - 514	15 - 528	AA190994.
HCUAZ01	9289	917266	1 - 325	15 - 339	AA908349.
HCUAW03	9290	924897	1 - 414	15 - 428	AI216081, AF150368, and AW264157.
HCUAP34	9291	706426	1 - 204	15 - 218	T95118.
HCUAN95	9292	796010	1 - 224	15 - 238	AI601207, AI225250, and F03622.
HCUAN89	9293	574275	1 - 129	15 - 143	AI672824.
HCUAN53	9294	728364	1 - 151	15 - 165	AA299020, AI459177, H70146, AF196969, AC007382, AC005088, AL133163, AL031668, AF030453, AL035086, AL135744, and AP000553.
HCUAM65	9295	887470	1 - 509	15 - 523	AA527109, F32749, AC006064, AC005156, AC003108, AC002477, AC004834, AC002425, AC005011, Z74739, and AC008079.
HCUAL33	9296	702677	1 - 345	15 - 359	T86948, AA677953, and AA778938.
HCUAG10	9297	968229	1 - 154	15 - 168	AA150568, and AC005781.
HCUAF80	9298	862171	1 - 256	15 - 270	AA621980, and AA621989.

HCUAF01	9299	850153	1 - 405	15 - 419	AL080243, AC005971, AC004216, Z85987, AL117258, AC005581, AL031659, AL049636, AL049569, AC004491, AL133163, AC005086, AL008721, AC004534, AC005089, AC005229, AC002350, AL031255, AC007546, AC012384, AL096791, AL034420, AC005702, AL034429, U91323, AC007688, AC005972, AC006211, AF047825, AC008119, AC006966, AF196779, AF001552, AC007193, AC008115, U91321, AC003035, AC002994, AL035249, AC004638, AC005237, and AL121652.
HCUAA92	9300	792947	1 - 585	15 - 599	AA017432, AI190211, AI168308, AI148392, AA206862, AI361394, AI761755, AI817338, AW005028, AI433437, AA243557, AA954313, W31550, C21014, AC005410, and AC005209.
HCFOP90	9301	862572	1 - 625	15 - 639	AA593533, AI284640, W95976, AI754955, AI431303, AL046409, N75702, AI610159, AW406755, AI281881, AW303196, AI270117, AW192265, AW301350, AI613280, AA828704, AA526787, AI350211, AI149478, AW274349, AI679132, AI053672, AI619997, AA177061, N53150, AA535661, AW088202, AW276827, AA469451, AI305547, AW021583, AL041706, AI570261, AI744995, AI334443, AI345654, AW029038, AI537955, AW193432, AI962050, AI249997, AI696793, AA587604, AI471481, AW148792, AI688846, AW265385, AI339850, AW438643, AW162049, AW261871, AI929531, AI085719, AA720702, AI367975, AA758934, AW270270, AI634384, F36273, AI370074, AA525190, AA491762, AA708678, AA826303, AI821271, AI564496, AW276435, AW073470, AA984708, AA507547, AA367986, AI457397, AI919265, AI732120, AI307201, AL041690, AI917271, AI298710, AA584201, AW072923, AA629992, AW238278, AW188484, AI192631, AA482711, AA649642, AI499938, AI499503, AI138265, AW162489, AA657835, AW157005, F34498, AI801591, AA491284, AI358501, AI871722, AI434695, AL037683, AI289067, AA514737, AI446464, AI375710, AW408643, AA126051, AA126035, AL138455, AI799642, AI200051, AA130647, AI370094, AI564185, H88666, AA847499, AL038606, AW169537, AA665330, AL047643, AA682912, AI587583, AW340844, AI679782, AI358571, AI587565, AI143242, AI246796, AI590772, AL041619, AA559290, AL046205, AI254615, AI312309, AW089322, AW339568, AA577906, AI379719, AL038785, AI754658, AW072587, AA719805, AI287651, AA515751, AA244357, AL044940, AW083402, AI357288, AA908687, AI133164, AA992126, AW406162, AI761471, F29702, AA488746, AI076616, AI537506, AI184226, AI110770, AA226715, AA837084, AI341664, AW168342, AA362573, AI334435, AA515905, AA613345, AI148277, AL042853, AA486559, AW020992, AW270382, AA350859, AI355224, AA426277, AI267818, AI733755, H93144, T07451, AA613227, AA502155, AA551503, AA654771, AA985038, AA653618, AA557686, AA490183, AA502866, AI246119, AA630362, AI358431, AI064864, H49822, AA084070, AA730362, AI539563, AI625244, AI282832, AL119691, AA856954, AA133333, AA483223, AI286356, AA581903, H52161, H00934, AI674873, AA503473, AL120687, AI291124, AA669840, AI282310, F03525, AI168185, AA631507, AL135724, AA348311, AA579179, AA601388, AW410400, AA610491, AC005785, U18391, D83989, U18394, U18399, X55931, U57009, U18395, X55925, U18396, X54181, X54175, X55926, X54180, U18393, I51997, U18392,

					U18398, AF077058, U57005, X54178, X53550, X55924, U57006, AF015167, A39972, X54176, X75335, U18387, U18390, M37551, U57008, AF015160, AF015151, AC007030, X55927, AF015147, AF015149, X55923, X55922, AF015156, X55930, X54179, X55932, AC004596, AC006207, U67801, D14872, AL121577, Z22650, AL121591, AC006285, U67231, X55928, AL132641, AF015166, AF015157, X88791, AC004833, AC006002, U67221, U18400, M87919, S43650, AC000353, U67832, Z49816, S56773, AL033392, U67233, AL050097, AF015158, AL009179, AL133382, AC004381, AC007043, U95742, Z69666, AC004953, AC006292, AC007216, AL133399, AC007488, AL008709, AC005250, AC007541, X54177, L81648, U12582, AC004987, U67225, Z98043, AC006559, AC004019, AC007099, AL031777, AC006057, AC005872, AC007221, AC006111, M87916, U12580, AC005815, AL096861, AC004382, AC006071, AC002465, AC005393, AL078581, AL096776, AL121603, Z95116, AC006511, AC004650, AL049562, U67211, AC005295, AC009516, AL032821, AL049712, AF131217, U69730, AL049853, AC004638, AC004006, AF042090, AC003683, AC006045, U66059, AC005154, AL031054, AC006960, AC004940, AC006539, U12584, AC003664, AC004890, AP000018, AC002564, AL049636, AB020859, AF010238, M96868, AC004691, AC004069, AC005699, D87009, AC004643, AC003986, AC004948, AL022163, AC005323, AC005837, AC003109, AL079340, AC007243, AL008716, AC005747, AC007999, AC007298, AF001549, AL008728, AL035089, X76629, AC002402, AC006213, AL023882, AC008168, AF095855, AC005387, AL035411, AF207550, L35531, U67827, AC007666, AC004989, Z68289, AC005829, AL049544, AL031848, Z82210, M57427, AC005378, AC006501, AC010202, AC004603, AC004848, AL132712, AL109985, AC006251, AC002470, AL022722, AC002430, AC007406, AC005775, AC005784, AL031311, AC004502, AC002350, AC003007, AL109654, Z69917, AC004986, AC009330, AF064862, AL034408, AP000328, Z93930, AR036572, U91328, AC006328, Z97205, AC007011, AL031116, AC006195, AL049569, AC005529, AC007384, AP000459, AC004626, Z86061, AC002383, AC002549, AC002289, AF064865, AL008627, AC002540, AC000066, AC007206, Z98046, Z98742, AL022302, AF123462, AF015170, AC002310, AC010072, AL021453, AC004686, AL031685, AL031281, AC006323, AC002984, AC007193, AL096770, U67229, AC007245, AC005632, S70707, and AC007677.
HCFOO25	9302	678200	1 - 543	15 - 557	AA234280.
HCFOO01	9303	916687	1 - 410	15 - 424	AA776383, AA429932, AL035454, AC005736, U91326, AC006312, and AL034420.
HCFO45	9304	850372	1 - 979	15 - 993	AI122618, AC004815, AP000010, AC005255, AC004812, AC006974, AL049691, AL031289, AB023049, AC000397, AC006344, AC006312, AL022313, AL035685, AC003043, AC005383, AC006966, AC004686, AL109984, AC000353, AC006205, AF196779, AC007664, AL009174, AL121825, AC005346, AP000260, AC004491, AC000052, AC003102, AC008033, AL023807, AL049709, AC004876, AC004150, AC004638, and AC007637.
HCFOF34	9305	955905	1 - 441	15 - 455	AI469974, N64084, AW249948, AI889301, AA858354, F33853, AA621968, AI344766, AI887574, AI340954, AI017298, AW087878, AI951753, AW001459, AI130844, AI610421, AI859074,